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BISTATIC SCATTERING FROM CONDUCTING CALIBRATION SPHERES

Joseph P. DiBeneditto, Major, USAF

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This handbook contains a comprehensive set of tables for the electromagnetic bistatic scattering from perfectly conducting spheres illuminated by linearly polarized plane waves. The tables were originally intended to serve as a calibration reference for radar cross section measurements, but they can also be used more generally as a standard of comparison for analytical, numerical, and experimental techniques in electromagnetics. The tables provide a listing of the bistatic radar cross sections computed from the Mie series to four place accuracy for a wide range of closely spaced sphere sizes and scattering angles. The FORTRAN program used to compute the tables was adapted from one developed at the Naval Research Laboratory and is listed in Appendix B. Also included in this handbook is a representative selection of plots which illustrate trends and give the observer a visual perspective of $\sqrt{\pi}$ a when ka and the bistatic observation angle are varied. 21 ABSTRACT SECURITY CLASSIFICATION Unclassified 220 DISTRIBUTION/AVAILABILITY OF ABSTRACT Unclassified 221 ABSTRACT SECURITY CLASSIFICATION Unclassified 222 OFFICE SYMBOL							
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Bistatic Scattering From Conducting Calibration Spheres

1. INTRODUCTION

After an extensive literature search, no comprehensive handbook of scattering tables for conducting spheres was found. Since a handbook of this kind would be valuable for calibration procedures, such as the use of spheres for the scattering reference targets in anechoic chambers, a project was undertaken to develop this handbook.

Mie 1 has generally been recognized for deriving the basic formulas to calculate the complete analytical solution for the scattering from spheres of arbitrary size. However, a literature review conducted by Logan^{2,3} shows that the formulas contained in Mie's solution were first presented by Lorenz⁴ in 1890. One reason why Mie has been credited with the solution may be that he set out on an extensive program of applying "his" solution to the computation of scattering from spheres which were too large to fit the criteria for Rayleigh scattering. In spite of the fact that Mie's solution was not original, it is exact and is used as the basis for the computation of the scattering tables contained in this handbook.

(Received for publication 18 April 1984)

^{1.} Mie, G. (1908) Ann. d. Physik, 25:377-442.

^{2.} Logan, N.A. (1962) Early history of the Mie solution, J. Opt. Soc. Am., 52:342-434.

^{3.} Logan, N. A. (1965) Survey of some early studies of the scattering of the plane waves by a sphere, Proc. IEEE, 53:773-785.

^{4.} Lorenz, L. (1890) Videnskab. Selskabs Skrifter, 6.

A number of existing FORTRAN programs for calculating the Mie scattering for spheres were analyzed for completeness, accuracy of computation, and ease of adaptation. ^{5,6,7} We finally chose the program developed by Hancock and Livingston of the Naval Research Laboratory (NRL) because of: (1) its complete and accurate treatment of the Bessel function computations as described in Abramowitz and Stegun; (2) its computational assurance that each Mie series reaches a designated convergence; and (3) its convenient adaptability for use on the Air Force Geophysics Laboratory (CDC 6600 computer).

Each table in this handbook lists the radar cross section normalized to the geometric cross section for both E-Plane (\overline{E}_1) and H-Plane (\overline{E}_r) polarizations for bistatic scattering angles from backscatter to forward scatter at 2-degree intervals. A table is listed for each ka value ranging from 0.2 to 40 at intervals of 0.2.

In addition to the tables, two sets of plots are included in this handbook. These plots are intended to illustrate trends and to give the observer an overall perspective of the bistatic scattering from conducting spheres. The first set contains plots of $\sigma/\pi a^2$ vs ka for particular bistatic observation angles ranging from backscatter to forward scatter at 10 degree intervals. The second set contains plots of $\sigma/\pi a^2$ vs bistatic observation angles for selected ka values ranging from 0.01 to 70.

2. THEORETICAL FORMULATION

The FORTRAN program is written from Kerker's formulation of the Mie scattering solution. A flowchart is contained in Appendix A and the program itself is listed in Appendix B. The NRL version of this program computed the scattering from lossless dielectric spheres only and, therefore, required modification before computations for perfectly conducting spheres could be carried out. The derivation of the formulas for conducting spheres will now be discussed.

The geometry of the problem is illustrated in Figure 1, where a sphere of radius a is centered at the origin. The magnitude of the incident electric field is assumed to be one propagating in the +z direction, $\hat{\mathbf{e}}_z$, and polarized along the x-axis $(\overline{\mathbf{E}}_i)$. The observation direction of the scattered wave $(\overline{\mathbf{r}})$ is defined by the usual spherical angles θ and ϕ shown in Figure 1. The directions of incidence and scattering define the "scattering plane."

⁽Because of the large number of references cited above, they will not be listed here. See References, page 55.)

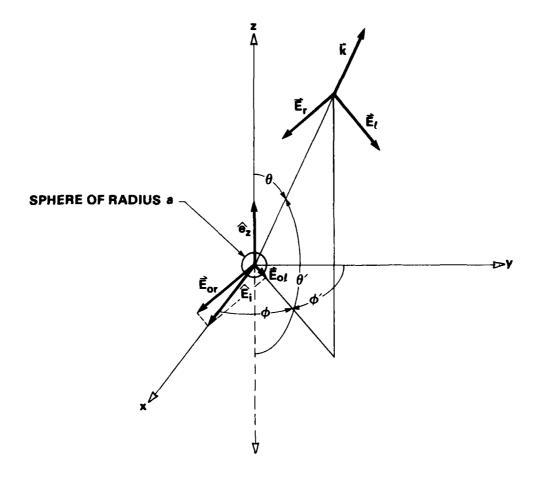


Figure 1. Geometry of Scattering Problem

The most difficult part of calculating the radar cross section (RCS) is the evaluation of the complex scattering amplitude functions S_1 and S_2 given by

$$S_{1} = \sum_{n=1}^{\infty} \frac{2n+1}{n(n+1)} \left[a_{n} \pi_{n}(\cos \theta) + b_{n} \tau_{n}(\cos \theta) \right]$$
 (1)

$$S_{2} = \sum_{n=1}^{\infty} \frac{2n+1}{n(n+1)} \left[a_{n} \tau_{n}(\cos \theta) + b_{n} \pi_{n}(\cos \theta) \right] , \qquad (2)$$

where the angular functions $\pi_n(\cos\theta)$ and $\tau_n(\cos\theta)$ are

$$\pi_{n}(\cos \theta) = \frac{P_{n}^{(1)}(\cos \theta)}{\sin \theta}$$
(3)

$$\tau_{n}(\cos\theta) = \frac{d}{d\theta} P_{n}^{(1)} \cos\theta$$
 (4)

From Eq. (3)

$$P_{n}^{(1)}(\cos\theta) = \sin\theta \cdot \pi_{n}(\cos\theta)$$
 (5)

which leads to

$$\tau_{n}(\cos\theta) = \frac{d}{d\theta} P_{n}^{(1)}(\cos\theta) = \cos\theta \cdot \pi_{n}(\cos\theta) - \sin^{2}\theta \cdot \pi_{n}'(\cos\theta).$$
(6)

The following recursion relations can be used to compute $\pi_n(\cos\theta)$ and $\pi_n'(\cos\theta)$.

$$\pi_{\mathbf{n}}(\cos\theta) = \cos\theta \left(\frac{2\,\mathbf{n}-1}{\mathbf{n}-1}\right) \, \pi_{\mathbf{n}-1}(\cos\theta) - \left(\frac{\mathbf{n}}{\mathbf{n}-1}\right) \, \pi_{\mathbf{n}-2}(\cos\theta) \tag{7}$$

$$\pi'_{n}(\cos\theta) = (2n-1)\pi_{n-1}(\cos\theta) + \pi'_{n-2}(\cos\theta)$$
 (8)

knowing that $\pi_1(\cos\theta) = 1$, $\pi_1'(\cos\theta) = 0$, $\pi_2(\cos\theta) = 3\cos\theta$, and $\pi_2'(\cos\theta) = 3$. From the scattering amplitude coefficients, a_n and b_n , for penetrable spheres,

$$a_{n} = \frac{\Psi_{n}(\alpha) \Psi_{n}'(\beta) - m \Psi_{n}(\beta) \Psi_{n}'(\alpha)}{\zeta_{n}(\alpha) \Psi_{n}'(\beta) - m \Psi_{n}(\beta) \zeta_{n}'(\alpha)}$$
(9)

$$b_{n} = \frac{m \Psi_{n} (\alpha) \Psi_{n} (\beta) - \Psi_{n} (\beta) \Psi_{n}' (\alpha)}{m \zeta_{n} (\alpha) \Psi_{n}' (\beta) - \Psi_{n} (\beta) \zeta_{n}' (\alpha)},$$
(10)

we can find a_n and b_n for a perfectly conducting sphere by letting the refractive index (m) approach infinity. Thus Eqs. (9) and (10) reduce to

$$a_{n} = \frac{\Psi_{n}'(\alpha)}{\zeta_{n}'(\alpha)} \tag{11}$$

and

$$b_{n} = \frac{\Psi_{n}(\alpha)}{\zeta_{n}(\alpha)}. \tag{12}$$

The perimeter of the sphere in wavelengths is denoted by $\alpha = ka = \frac{2\pi a}{\lambda}$ with $\lambda =$ free space wavelength of the incident wave and a = radius of the sphere. $\Psi_{\mathbf{n}}(\alpha)$ and $\zeta_{\mathbf{n}}(\alpha)$ are the Ricatti-Bessel functions defined in the following manner:

$$\Psi_{n}(\alpha) = (\pi \alpha/2)^{1/2} J_{n+1/2}(\alpha)$$
 (13)

$$\zeta_{n}(\alpha) = (\pi \alpha / 2)^{1/2} H_{n+1/2}^{(2)}(\alpha)$$
, (14)

where $J_{n+1/2}(\alpha)$ and $H_{n+1/2}^{(2)}(\alpha)$ are the half integral order Bessel functions of the first kind and Hankel functions of the second kind respectively. The function, $\zeta_n(\alpha)$ is computed from $\Psi_n(\alpha)$ - $i\chi_n(\alpha)$ where

$$\chi_{n}(\alpha) = (\pi \alpha/2)^{1/2} Y_{n+1/2}(\alpha)$$
 (15)

and $Y_{n+1/2}(\alpha)$ is the half integral order Bessel function of the second kind. Primes on the functions $\Psi_n'(\alpha)$ and $\zeta_n'(\alpha)$ represent the derivatives with respect to the argument (α) .

The method of logarithmic derivatives, first used by Infeld 10 , will now be used to transform Eq. (11) into a computationally simpler form which does not involve the explicit evaluation of $\Psi_n'(\alpha)$ and $\zeta_n'(\alpha)$. We now define two Bessel density functions $S_n(\alpha)$ and $R_n(\alpha)$ where

$$S_n(\alpha) = (\alpha)^{1/2} J_{n+1/2}(\alpha) = \left(\frac{2}{\pi}\right)^{1/2} \Psi_n(\alpha)$$
 (16)

$$R_n(\alpha) = (\alpha)^{1/2} H_{n+1/2}^{(2)}(\alpha) = \left(\frac{2}{\pi}\right)^{1/2} \zeta_n(\alpha)$$
 (17)

The logarithmic derivatives of $\Psi_n(\alpha)$ and $\zeta_n(\alpha)$ are defined as two new functions $\sigma_n(\alpha)$ and $\rho_n(\alpha)$:

$$\sigma_{n}(\alpha) = \frac{d}{d\alpha} \ln \left[\Psi_{n}(\alpha) \right] = \frac{\Psi'_{n}(\alpha)}{\Psi_{n}(\alpha)} = \frac{S'_{n}(\alpha)}{S_{n}(\alpha)} = \frac{d}{d\alpha} \ln \left[S_{n}(\alpha) \right]$$
 (18)

$$\rho_{n}(\alpha) = \frac{d}{d\alpha} \ln \left[\zeta_{n}(\alpha) \right] = \frac{\zeta_{n}'(\alpha)}{\zeta_{n}(\alpha)} = \frac{R_{n}'(\alpha)}{R_{n}(\alpha)} = \frac{d}{d\alpha} \ln \left[R_{n}(\alpha) \right]. \tag{19}$$

The expression for the scattering amplitude coefficient \boldsymbol{a}_n now becomes

$$a_{n} = \frac{\Psi'_{n}(\alpha)}{\Psi_{n}(\alpha)} = \frac{\Psi_{n}(\alpha) \cdot \frac{\Psi'_{n}(\alpha)}{\Psi_{n}(\alpha)}}{\zeta_{n}(\alpha) \cdot \frac{\zeta'_{n}(\alpha)}{\zeta_{n}(\alpha)}} = \frac{\Psi_{n}(\alpha)}{\zeta_{n}(\alpha)} \cdot \frac{\sigma_{n}(\alpha)}{\rho_{n}(\alpha)}.$$
 (20)

By substituting Eq. (12) into Eq. (20) we get

$$a_n = b_n \cdot \frac{\sigma_n(\alpha)}{\rho_n(\alpha)}$$
 (21)

If we let $z_n(\alpha)$ denote the general Bessel function $[J_n(\alpha), Y_n(\alpha), H_n(\alpha)]$, and so on], then the general Bessel density function $D_n(\alpha)$ becomes

$$D_{n}(\alpha) = \alpha^{1/2} Z_{n+1/2}(\alpha) . {(22)}$$

^{10.} Infeld, L. (1947) The influence of the width of the gap upon the theory of antennas, Quart. Appl. Math., 5.

By differentiating $D_n(\alpha)$ with respect to α we get

$$D_{n}'(\alpha) = \alpha^{1/2} Z_{n+1/2}'(\alpha) + \frac{1}{2} \alpha^{-1/2} Z_{n+1/2}(\alpha) .$$
 (23)

If the recurrence formula 11

$$Z'_{n+1/2}(\alpha) = Z_{n-1/2}(\alpha) - \left[\frac{n+1/2}{\alpha}\right] Z_{n+1/2}(\alpha)$$
 (24)

is substituted into Eq. (23) then

$$D_{n}'(\alpha) = \alpha^{1/2} \left[Z_{n-1/2}(\alpha) - \frac{n}{\alpha} Z_{n+1/2}(\alpha) \right] .$$
 (25)

If we let $d_n(\alpha)$ denote the logarithmic derivative of $D_n(\alpha)$ then

$$d_{n}(\alpha) = \frac{D_{n}'(\alpha)}{D_{n}(\alpha)} = \begin{bmatrix} Z_{n-1/2}(\alpha) \\ Z_{n+1/2}(\alpha) \end{bmatrix} - \frac{n}{\alpha}, \qquad (26)$$

and the computation of $\sigma_n(\alpha)$ and $\rho_n(\alpha)$ become

$$\sigma_{n}(\alpha) = \frac{\Psi_{n}'(\alpha)}{\Psi_{n}(\alpha)} = \frac{S_{n}'(\alpha)}{S_{n}(\alpha)} = \begin{bmatrix} J_{n-1/2}(\alpha) \\ J_{n+1/2}(\alpha) \end{bmatrix} - \frac{n}{\alpha}$$
 (27)

$$\rho_{n}(\alpha) = \frac{\zeta_{n}'(\alpha)}{\zeta_{n}(\alpha)} = \frac{R_{n}'(\alpha)}{R_{n}(\alpha)} = \begin{bmatrix} \frac{H_{n-1/2}^{(2)}(\alpha)}{H_{n+1/2}(\alpha)} \\ \end{bmatrix} - \frac{n}{\alpha}.$$
 (28)

By substituting Eqs. (13) and (14) in Eq. (12) we find

$$b_{n} = \frac{\Psi_{n}(\alpha)}{\zeta_{n}(\alpha)} = \frac{(\pi \alpha/2)^{1/2} J_{n+1/2}(\alpha)}{(\pi \alpha/2)^{1/2} H_{n+1/2}^{(2)}(\alpha)} = \frac{J_{n+1/2}(\alpha)}{H_{n+1/2}^{(2)}(\alpha)}.$$
 (29)

^{11.} Watson, G. (1962) A Treatise on the Theory of Bessel Functions, Cambridge University Press, New York.

These relations are sufficient to easily compute the RCS of perfectly conducting spheres and were utilized for modifying NRL's FORTRAN program. Because we preferred the representation and notation of Ruck et al, 12 we decided to convert Kerker's formulation to Ruck's notation. Figure 2 shows the geometrical relationship between the two different notational systems. As one can see, Ruck's ϕ' is equal to Kerker's $\pi/2$ - ϕ and Ruck's θ' is equal to Kerker's π - θ . After this conversion the normalized RCS, σ_N , which is the absolute RCS in the observation direction divided by the geometric cross section of the sphere, becomes

$$\sigma_{\mathbf{N}}(\theta', \phi') = \left(\frac{\lambda}{\pi a}\right)^{2} \left[\left|\mathbf{S}_{1}(\theta')\right|^{2} \cos^{2} \phi' + \left|\mathbf{S}_{2}(\theta')\right|^{2} \sin^{2} \phi'\right]. \tag{30}$$

3. PROGRAM DESCRIPTION

The first modification of NRL's computer program was the conversion to CDC 6600 single precision arithmetic (approximately 14 decimal digits). Comparison of single and double precision runs showed no difference for the four decimal digit accuracy desired. Therefore, double precision was considered unnecessary. As in the original program, the convergence criterion was that six consecutive terms of each series are required to satisfy the condition that the ratio of the current term to the current partial sum not exceed the relative tolerance of \pm 0,001. If this convergence condition is not met within 90 terms, a convergence warning is issued, and the 90th partial sum is used as the series value. Warnings have only been observed for ka > 77. The NRL program was further modified to be more user friendly. In other words when a data input is required an explicit question appears as a prompt. The NRL program only allowed the user to compute the RCS at 19 equispaced bistatic scattering angles but our modified program allows an unlimited number of equispaced angles to be computed in a single run. Subroutines in the NRL program which were used solely to compute the scattering from particle distributions have been omitted. Other changes include the conversion to Ruck's notation, the change in the calculation of scattering amplitude coefficients an and b to accommodate perfectly conducting spheres, and expansion in capability to compute the normalized RCS, σ_N , for any two orthogonal polarizations (not just E-Plane and H-Plane).

^{12.} Ruck, G., Barrick, D., Stuart, W., and Krichbaum, C. (1970) Radar Cross Section Handbook, I, Plenum Press, New York.

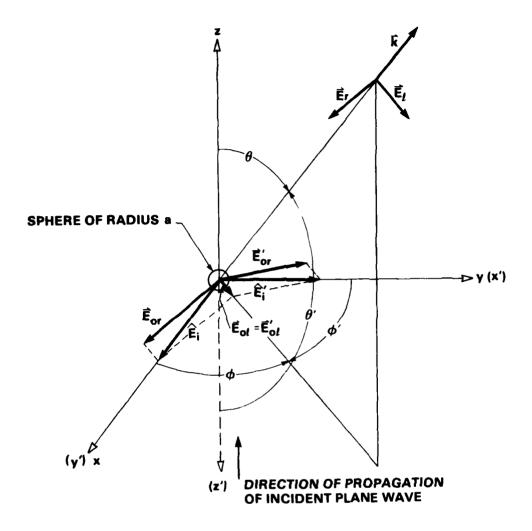


Figure 2. Relation Between Notation of Kerker and Ruck

There is a choice of two input formats. Type 0 format allows for ka and λ as input constants; type 1 allows for frequency and sphere radius. For either type, the normalized RCS, σ_N , for two orthogonal polarizations ϕ' and ϕ' + 90 is calculated for scattering angles θ' , θ' + $\Delta\theta'$, θ' + $2\Delta\theta'$, ... θ' + (NRTH - 1) $\Delta\theta'$.

The input variables are defined below:

LAMBDA	λ	Free space wavelength
Α	a	Sphere radius (centimeters)
KA	ka	$\frac{2\pi a}{\lambda}$
FREQ	f	Frequency (Hertz)
PHI	ϕ'	Labeled PHI' - Polarization angle in XY plane (degrees)
THZ	θ_{o}'	Labeled THETA' SUB ZERO - Initial value of θ ' (degrees)
DELTH	Δθ'	Labeled DELTA THETHA' - Step size for θ ' (degrees)
NRTH		Labeled NUMBER OF THETA' - Number of values of θ ' to be computed

The first line of output for either type 0 or 1 run contains NRTH, A (meters), LAMBDA (meters), and ka respectively. Each successive line contains θ' , $\sigma_N(\theta', \phi')$, $\sigma_N(\theta', \phi' + 90^\circ)$. Two sample runs are listed on the next page. The first is for type 0 runs; the second, type 1.

4. PLOTS OF $\sigma/\pi a^2$ VERSUS ka

This section contains plots of $\sigma/\pi a^2$ vs ka for conducting spheres. Plots for each bistatic scattering observation angle ranging from backscatter ($\theta=0^\circ$, where θ corresponds to Ruck's θ ') to forward scatter ($\theta=180^\circ$) at 10 degree intervals are included. The solid curves represent the E-Plane scattering and the dashed curves represent the H-Plane scattering. When referring to these plots, three distinct regions will be identified: the low-frequency region where ka < 0.4, the resonance region between ka = 0.4 and a point where the oscillations have settled to within some small value, ϵ , of the asymptotic value of $\sigma/\pi a^2$ and the high frequency region where $\sigma/\pi a^2$ is within ϵ of the asymptotic value.

```
********
                                                  TYPE 1 TO RUN, 0 TO STOP >1
TYPE 1 TO RUN, 0 TO STOP >1
                                                  TYPE O FOR KA, 1 FOR FREQ INPUT >1
TYPE O FOR KA, 1 FOR FRED INPUT >0
                                                  INPUT FRED, RADIUS(CH) >1E10,.4775
INPUT KA, LAMBDA(CH) >1.3
                                                  INPUT PHI', THETA SUB ZERO >0,0
INPUT DELTA THETA', NUMBER OF THETA' >10,19
INPUT PHI?, THETA' SUB ZERO 00,0
INPUT DELTA THETA . NUMBER OF THETA >10.19
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 19 .4775E-02 .3000E-01 1.000
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  0.0 3.6376E+00 3.6376E+00
 10.0 3.5798E+00 3.6313E+00
                                                   10.0 3.5807E+00 3.6322E+00
                                                   20.0 3.4103E+00 3.6127E+00
 20.0 3.4093E+00 3.6116E+00
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                                                  120.0 3.3331E-01 2.2761E+00
120.0 3.3200E-01 2.2732E+00
                                                  130.0 5.1771E-01 2.1015E+00
130.0 5.1625E-01 2.0986E+00
                                                  140.0 7.9811E-01 1.9535E+00
140.0 7.9635E-01 1.9506E+00
                                                  150.0 1.1178E+00 1.8374E+00
150.0 1.1157E+00 1.8345E+00
                                                  160.0 1.4112E+00 1.7551E+00
160.0 1.4087E+00 1.7522E+00
                                                  170.0 1.6166E+00 1.7065E+00
170.0 1.6138E+00 1.7035E+00
                                                  180.0 1.6904E+00 1.6904E+00
180.0 1.6875E+00 1.6875E+00
**************
                                                  TYPE 1 TO RUN, O TO STOP >0
TYPE 1 TO RUN, O TO STOP >0
                                                        END MIECH
      END MIECH
                                                       035500 HAXINUM EXECUTION FL.
     035500 MAXIMUM EXECUTION FL.
                                                         .099 CP SECONDS EXECUTION TIME.
       .097 CF SECONDS EXECUTION TIME.
```

Figure 3. Sample Run for MIECM for Ka, Lambda Inputs

Figure 4. Sample Run of MIECM for Frequency, Radius Inputs

Figure 5 shows the classic normalized backscatter cross section vs ka which is seen in most reference books on electromagnetic scattering. The remainder of the plots included in this section are rarely seen in the literature, but they do reveal some trends which should be noted. First, as θ increases from 0 degrees, the resonance region for the E-Plane scattering broadens as the oscillations increase in magnitude. Thus, as θ increases, larger ka values must be attained before reaching the high-frequency region. On the contrary, for θ < 80°, the ' H-Plane scattering curves remain relatively unchanged and reach the high-frequency region at much lower ka values than for the E-Plane. Second, the H-Plane curves indicate a forward scatter enhancement as θ increases beyond approximately 80 degrees. This enhancement does not become apparent for E-Plane scattering until \theta reaches much higher values. Third, the E-Plane and H-Plane scattering curves clearly begin to reconverge as θ increases beyond 140 degrees. Fourth, at low values of both θ (except θ = 0°) and ka, the E-Plane scattering curves indicate the presence of a second order interference pattern. This resonance manifests itself as a modal pattern in those E-Plane curves. The H-Plane curves reveal no such phenomenon. Lastly, for the forward scatter direction (Figure 23), it is clear that for ka > 10 we find that $\sigma/\pi a^2 \approx (ka)^2$ which agrees with the highfrequency region solutions for forward scatter universally found in the literature.

5. PLOTS OF $\sigma/\pi a^2$ VERSUS θ

This section contains plots of $\sigma/\pi a^2$ vs the bistatic scattering observation angle θ (where θ corresponds to Ruck's θ ') for selected values of ka ranging from 0.01 to 70.0. The solid curves are for the E-Plane scattering and the dashed curves are for the H-Plane scattering.

Figures 24 and 25 illustrate the dipole effect which is prevalent in very small conducting spheres. The induced surface charges and currents on such spheres correspond to oscillating electric and magnetic dipoles where the ratio of the electric to magnetic dipole moment is 2 to 1. The null in the E-Plane curves at $\theta=120^\circ$ is a result of the electric and magnetic dipole far fields cancelling at this angle. Specifically, the low-frequency scattering solutions are

$$\sigma/\pi a^2 = 4 (ka)^4 [1/2 + \cos \theta]^2$$
 for E-Plane $\sigma/\pi a^2 = 4 (ka)^4 [1/2 \cos \theta + 1]^2$ for H-Plane

which clearly reveal the null in the E-Plane. It is also evident from the first two plots and the formulas above that $\sigma/\pi a^2$ for H-Plane scattering is a monotonically decreasing function containing no nulls.

As ka increases beyond 0.2, the null in the E-Plane curves gradually disappears and no clear trend appears until ka increases beyond approximately 4.0. The envelope for the E-Plane curves then becomes evident and even though the broadness and magnitude of the envelope pattern varies as ka increases, the characteristic shape does not. For the H-Plane, the magnitude of the oscillations is always much smaller.

One important factor to consider when using metal spheres for calibrating bistatic scattering ranges is that one must be careful not to pick a sphere size which has a deep valley or null in the theoretical pattern at the bistatic angles to be measured. This condition must be insured in order to minimize measurement errors throughout the dynamic range of the measurement system.

6. CONCLUSIONS

We have illustrated the theoretical derivation for the Mie scattering from conducting spheres using Kerker's formulation and have incorporated that theory into the FORTRAN program listed in Appendix B. This program (MIECM) is capable of computing the normalized scattering cross section for any number of equispaced bistatic scattering observation angles for any two orthogonal polarizations (for example, E-Plane and H-Plane). A description of how MIECM operates is provided so that it can be used after a minimal amount of user familiarization.

Two sets of plots which illustrate trends have been included in this handbook. In the discussion some anomalies such as the presence of a second order interference pattern in the E-Plane scattering for low values of θ and ka, and the dipole effect which is prevalent in the E-Plane scattering of very small spheres are pointed out. It is hoped that these two sets of plots will give the observer an overall perspective of bistatic scattering from conducting spheres.

In addition, we have stressed that, in order to minimize measurement errors, the size of the sphere used in the calibration of a bistatic scattering range must be chosen very carefully.

Finally we have compiled and included a comprehensive set of bistatic scattering tables for perfectly conducting spheres. The tables are intended to serve as a reference for the calibration of indoor scattering ranges which employ conducting spheres as test bodies. These tables will minimize the need for computing the MIE scattering for most reference spheres.

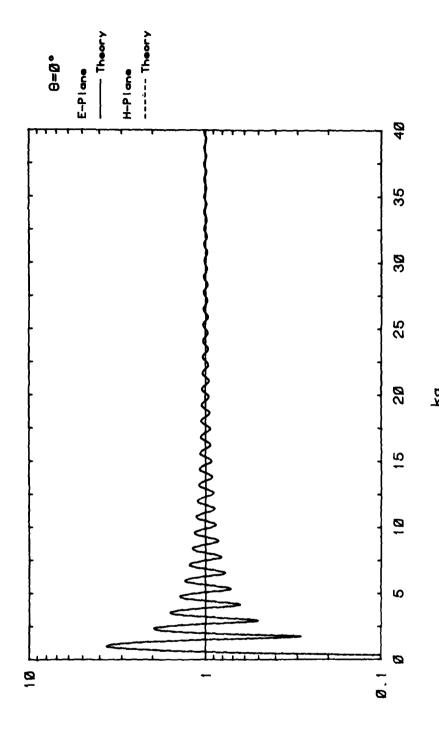
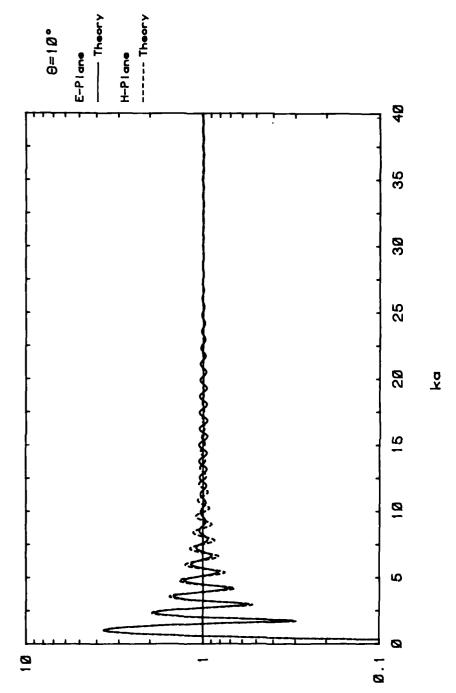


Figure 5. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 0^\circ$

Normalized Radar Cross-section, Tal





Normalized Radar Cross-section,

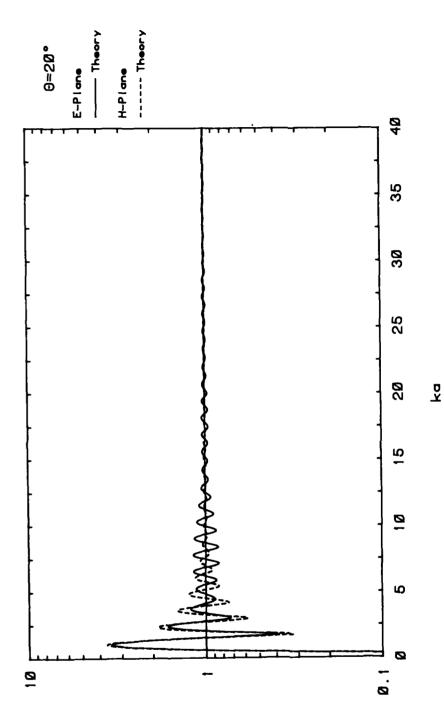


Figure 7. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 20^{\circ}$



Normalized Radar Cross-section,

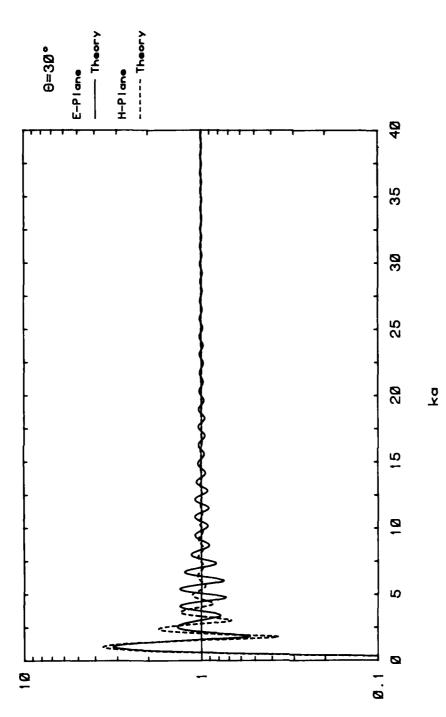
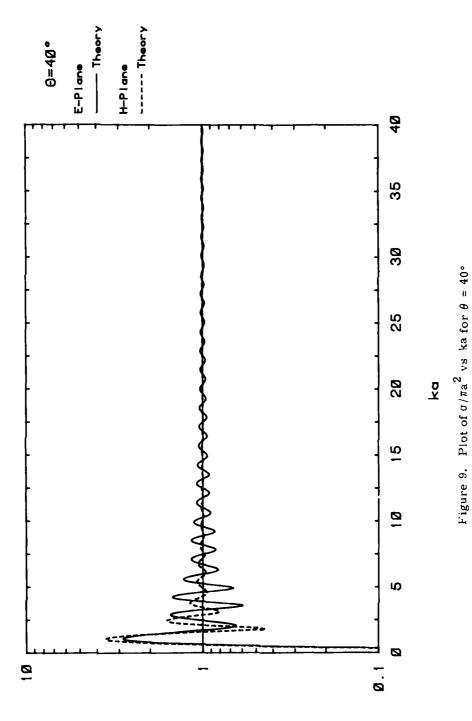


Figure 8. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 30^\circ$



Normalized Radar Cross-section, ad

Figure 10. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 50^{\circ}$

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Normalized Radar Cross-section, as

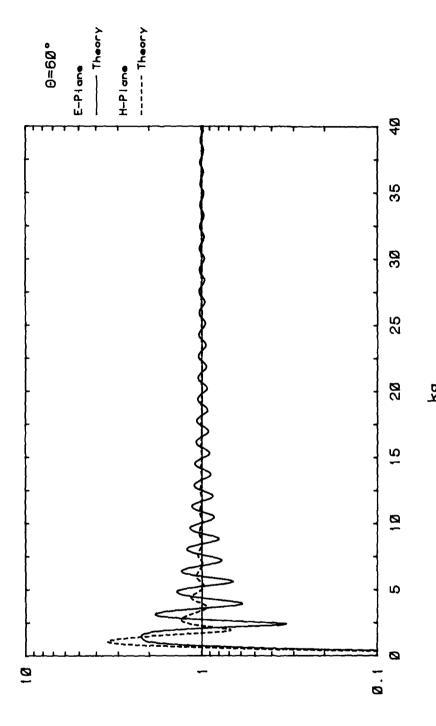


Figure 11. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 60^\circ$

Normalized Radar Cross-section, are

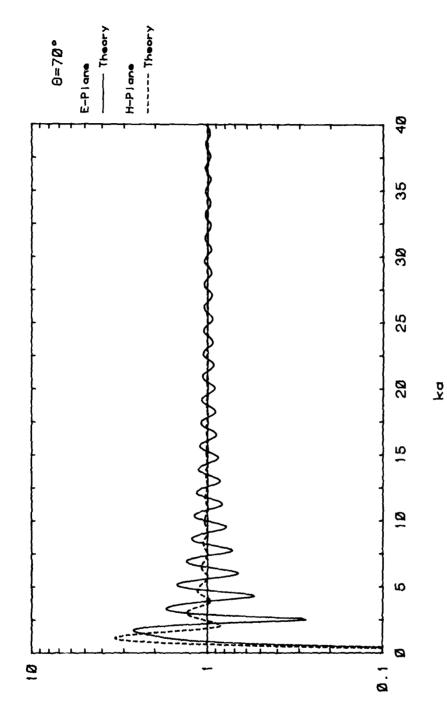


Figure 12. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 70^\circ$

Normalized Radar Cross-section, mat

Figure 13. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 80^\circ$

Normalized Radar Cross-section,

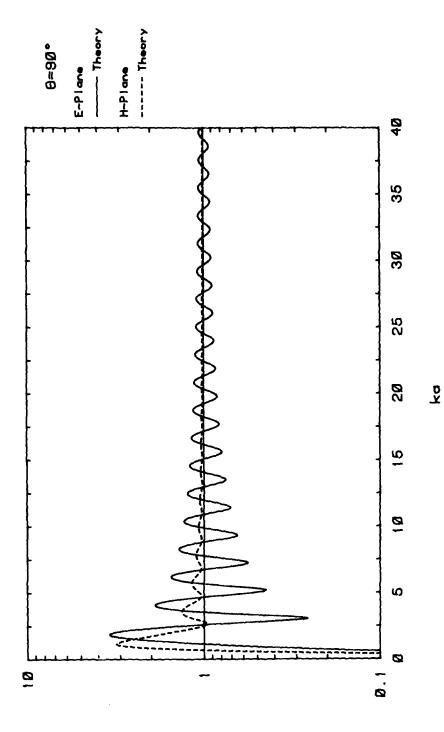


Figure 14. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 90^\circ$

Normalized Radar Cross-section, $\frac{\sigma}{n\sigma^{4}}$

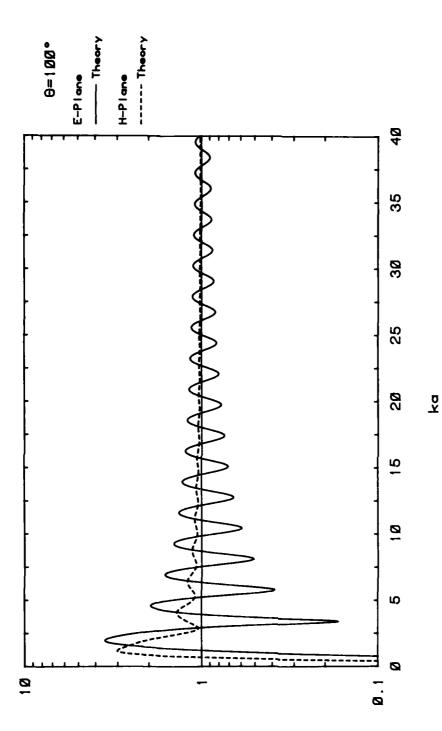


Figure 15. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 100^\circ$

Normalized Radar Cross-section, na

Normalized Radar Cross-section,

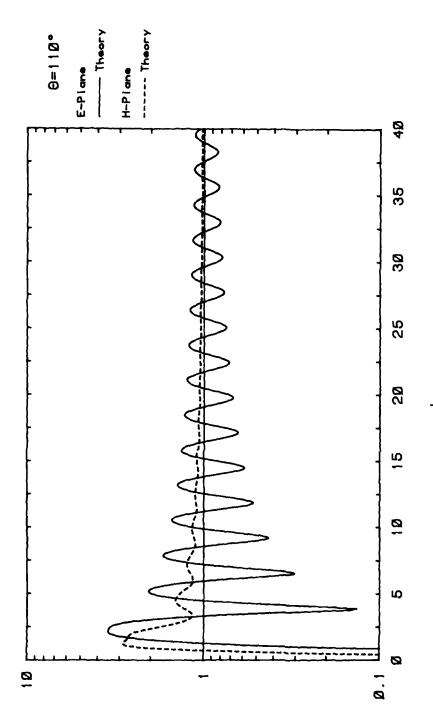


Figure 16. Plot of $\sigma/\pi a^2$ vs kafor $\theta = 110^\circ$

Normalized Radar Cross-section,

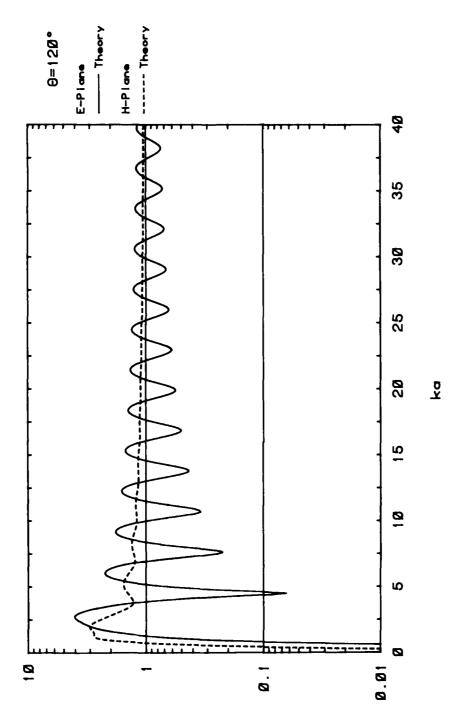


Figure 17. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 120^{\circ}$

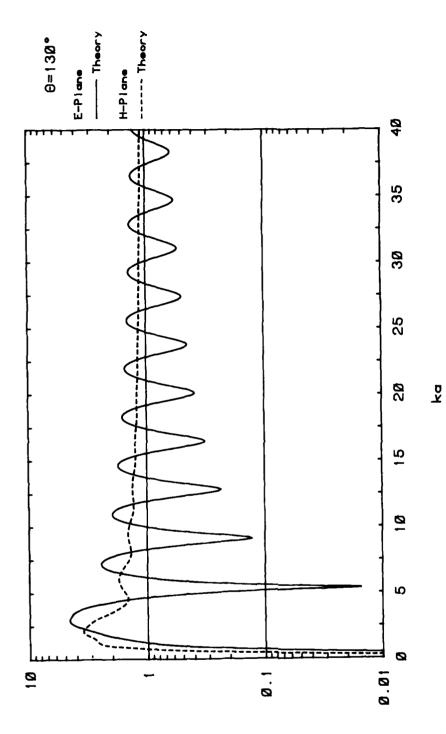
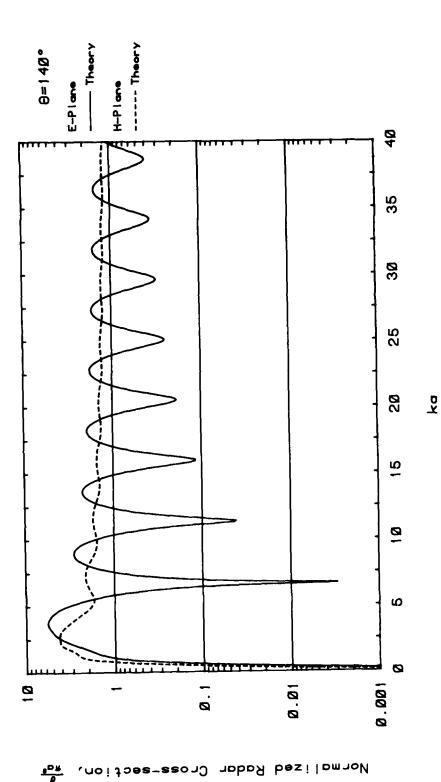


Figure 18. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 130^\circ$

Normalized Radar Cross-section, ad



いは、これがいいというできないのでは、これの人の人の人

Figure 19. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 140^{\circ}$

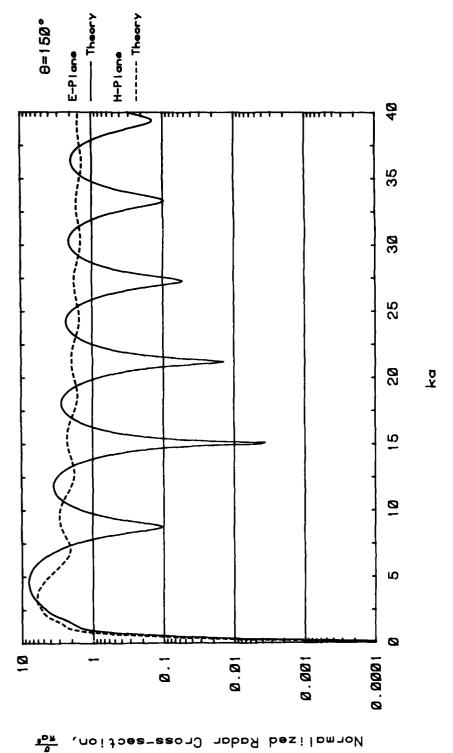


Figure 20. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 150^\circ$

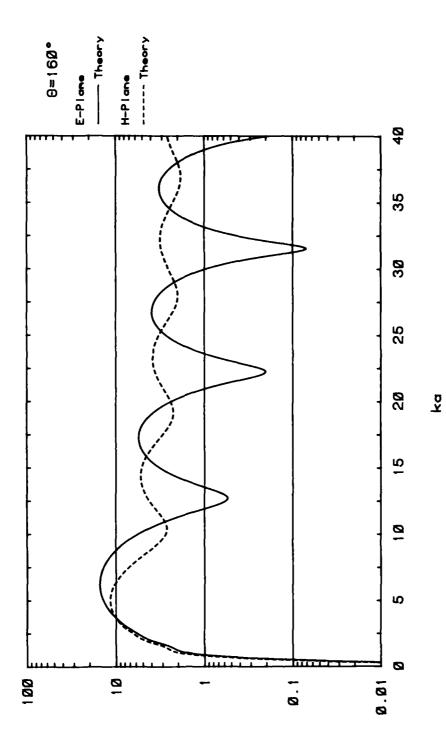


Figure 21. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 160^{\circ}$

Normalized Radar Cross-section, $\frac{\sigma}{R d^4}$

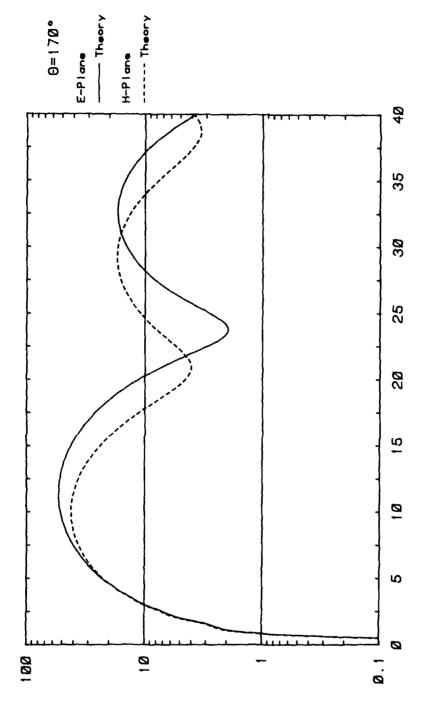


Figure 22. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 170^\circ$

Normalized Radar Cross-section, as

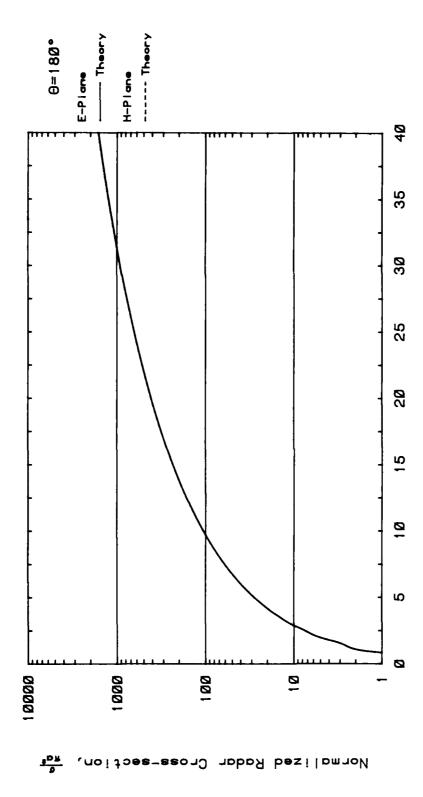


Figure 23. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 180^{\circ}$

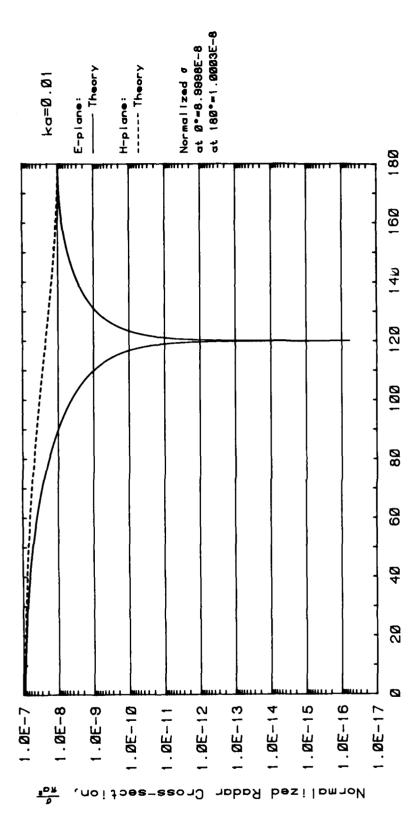


Figure 24. Plot of $\sigma/\pi a^2 vs \theta$ for ka = 0.01

Angle from Backscatter Direction [Degrees]

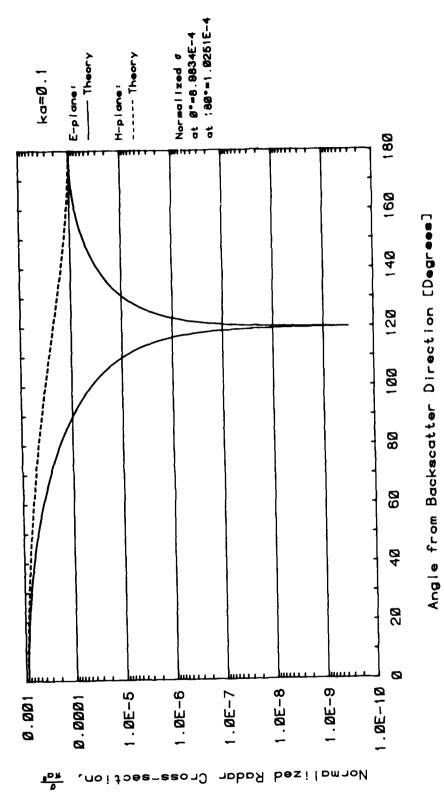


Figure 25. Plot of $\sigma/\pi a^2$ vs θ for ka = 0.1

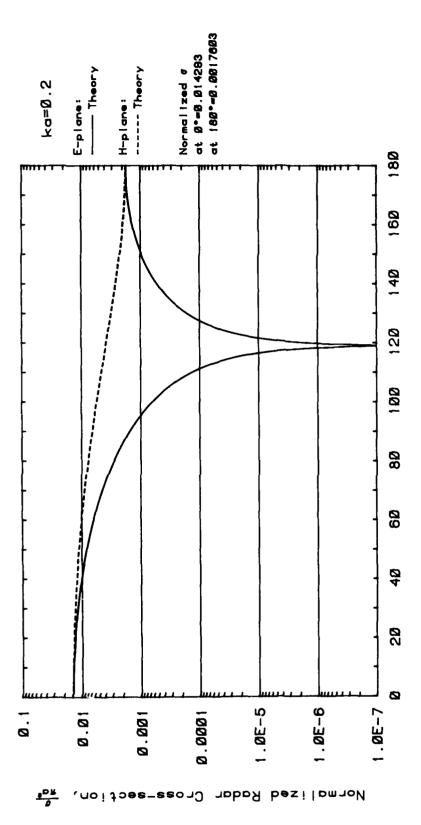


Figure 26. Plot of $\sigma/\pi a^2$ vs θ for ka = 0.2

Angle from Backscatter Direction [Degrees]

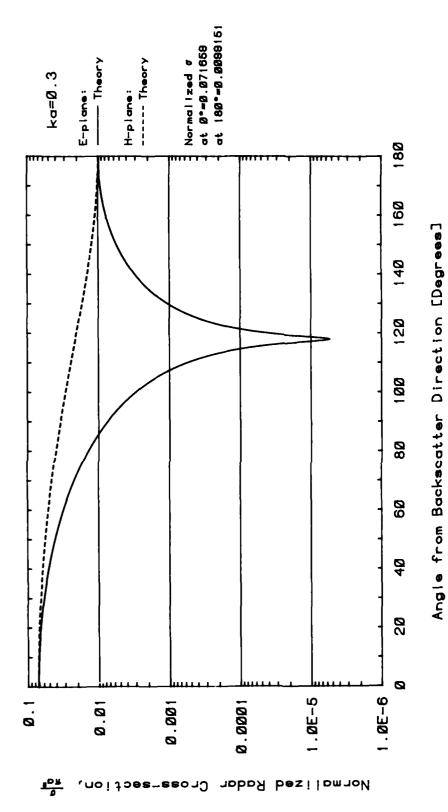


Figure 27. Plot of $\sigma/\pi a^2$ vs θ :for ka = 0.3

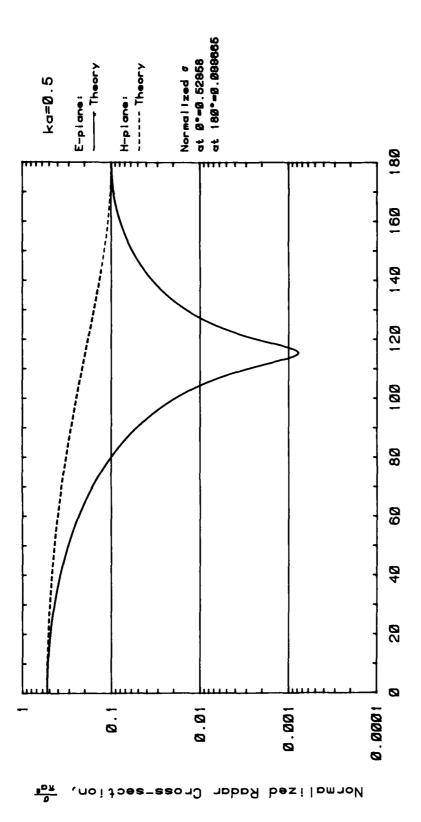
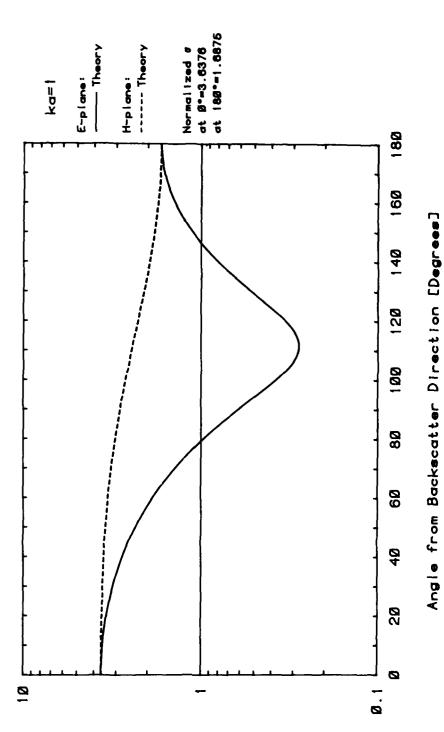


Figure 28. Plot of $\sigma/\pi a^2$ vs θ for ka = 0.5

Angle from Backscatter Direction [Degrees]





6

Figure 30. Plot of $\sigma/\pi a^2$ vs θ for ka = 1.4



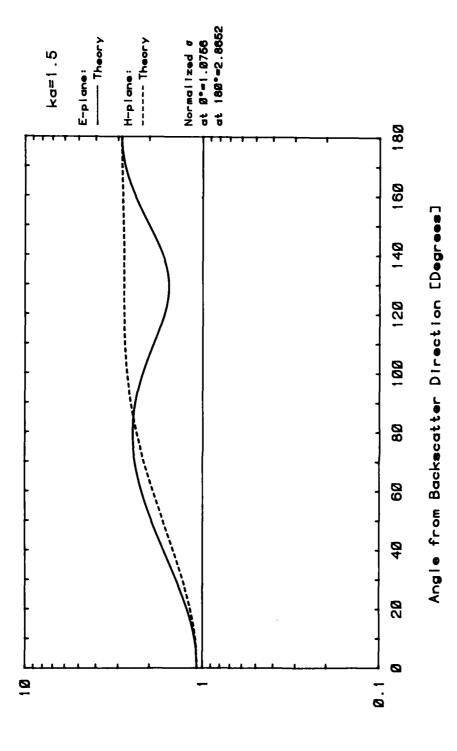


Figure 31. Plot of $\sigma/\pi a^2$ vs θ for ka = 1.5



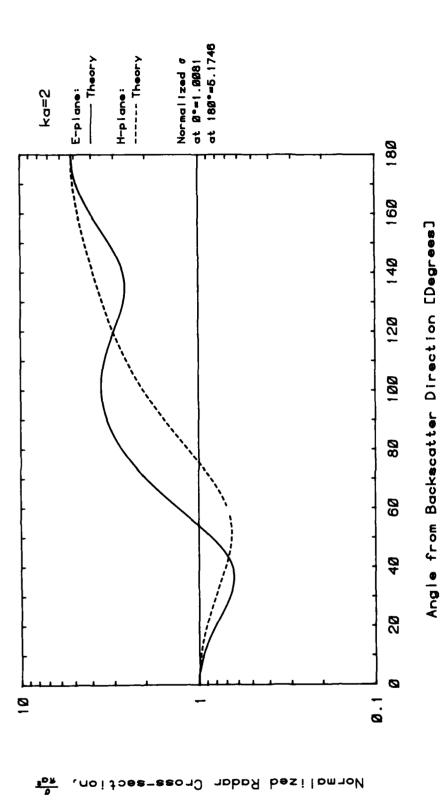


Figure 32. Plot of $\sigma/\pi a^2$ vs θ for ka = 2.0



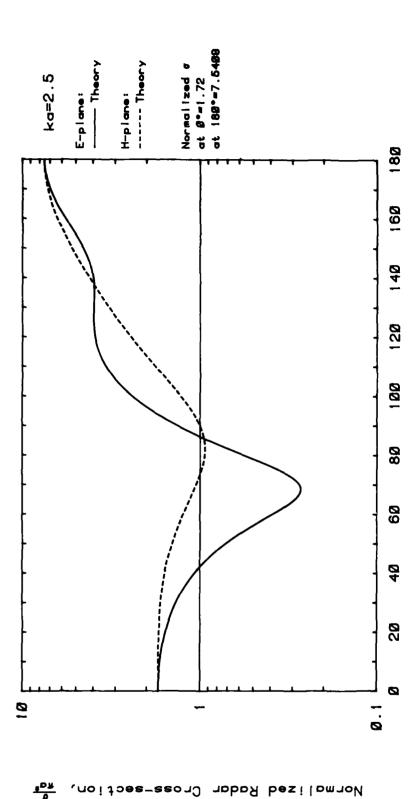


Figure 33. Plot of $\sigma/\pi a^2$ vs θ for ka = 2.5

Angle from Backscatter Direction [Degrees]

AND SOURCE SECTION TO SECTION TO SECTION OF SOURCE SECTION OF SECT

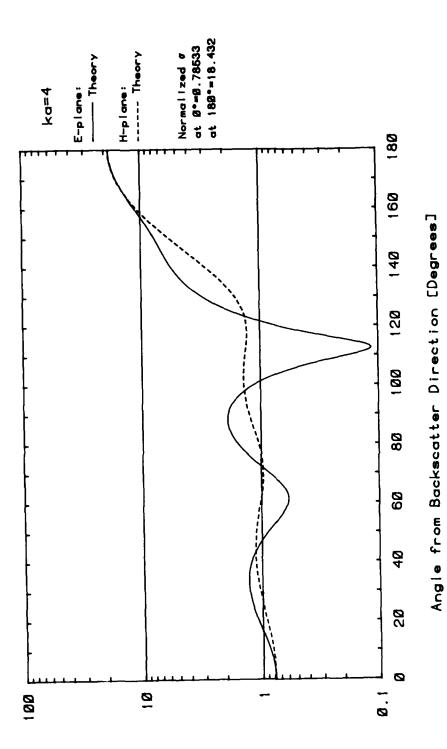


Figure 34. Plot of $\sigma/\pi a^2$ vs θ for ka = 4.0

Normalized Radar Cross-section, g

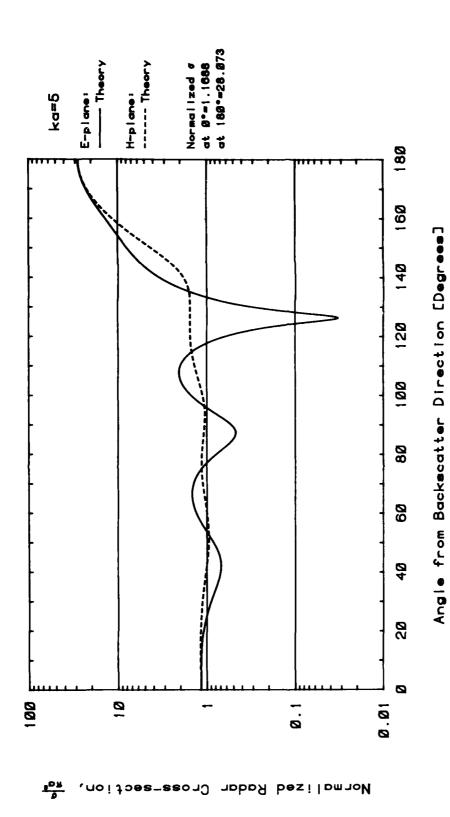


Figure 35. Plot of $\sigma/\pi a^2$ vs θ for ka = 5.0

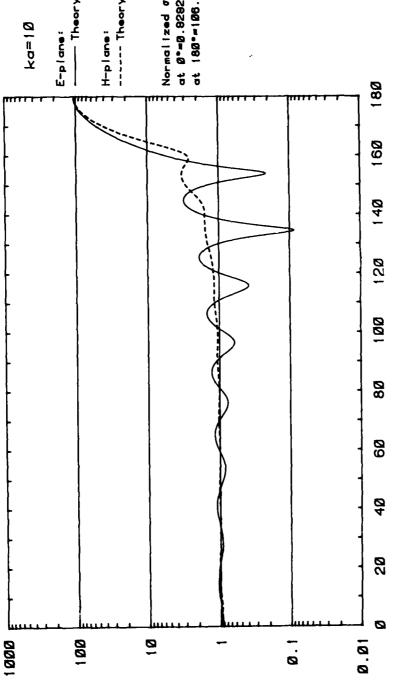
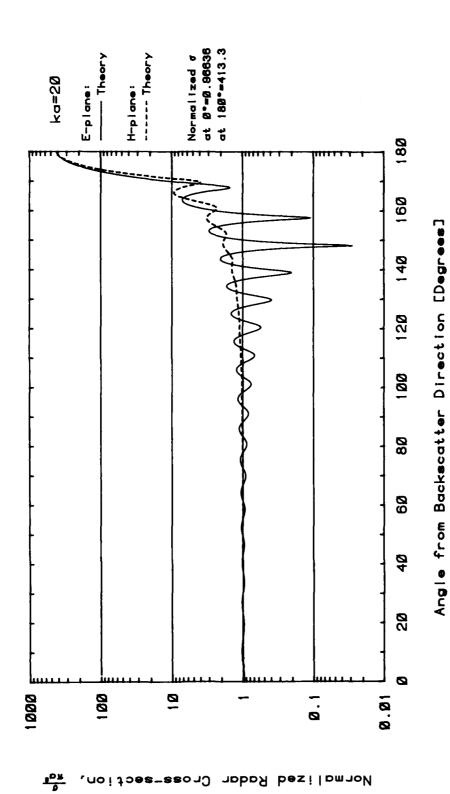


Figure 36. Plot of $\sigma/\pi a^2$ vs θ for ka = 10.0

Angle from Backscatter Direction [Degrees]



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Figure 37. Plot of $\sigma/\pi a^2$ vs θ for ka = 20.0

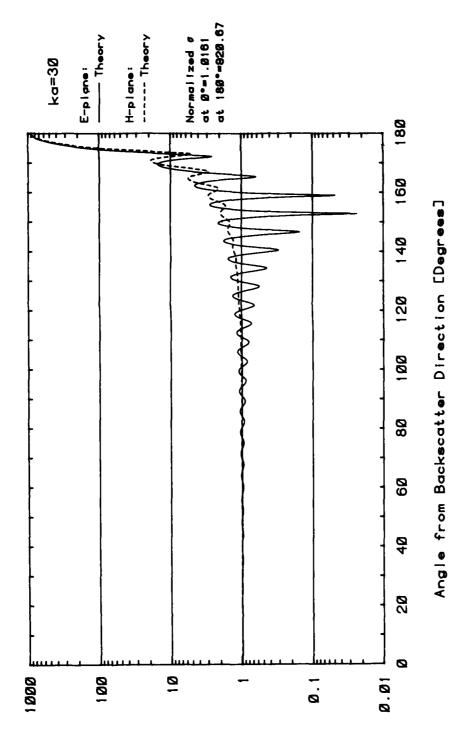


Figure 38. Plot of $\sigma/\pi a^2$ vs θ for ka = 30.0

Normalized Radar Cross-section, Tage

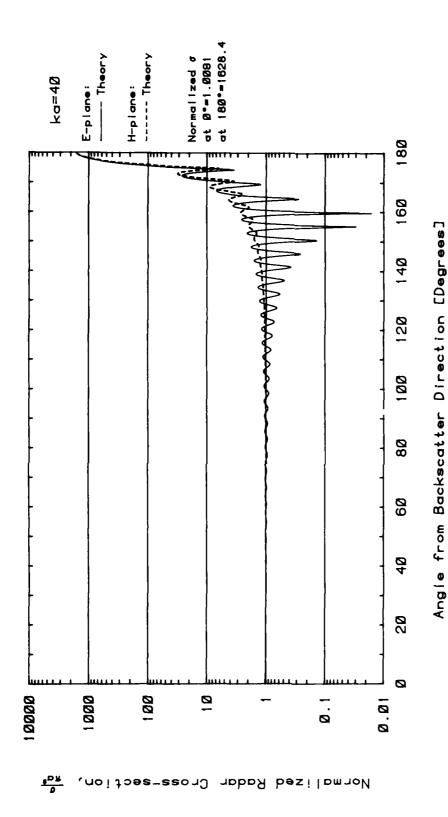


Figure 39. Plot of $\sigma/\pi a^2 vs\theta$ for ka = 40.0

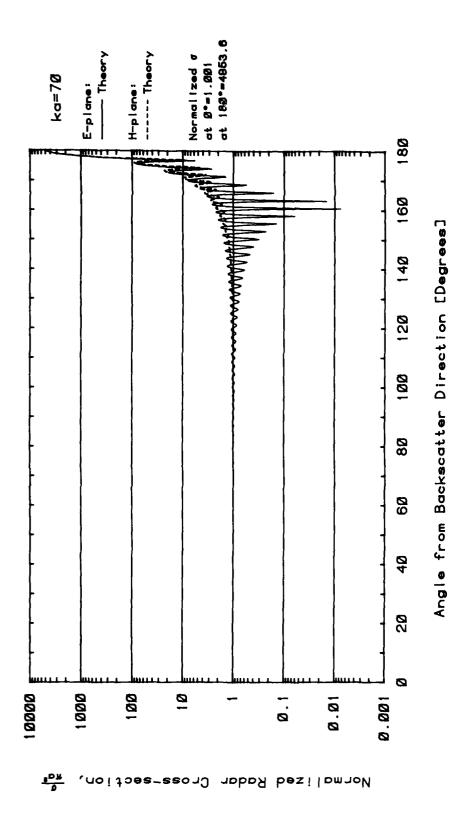


Figure 40. Plot of $\sigma/\pi a^2$ vs θ for ka = 70.0

References

- 1. Mie, G. (1908) Ann. d. Physik, 25:377-442.
- Logan, N.A. (1962) Early history of the Mie solution, <u>J. Opt. Soc. Am.</u>, 52:342-434.
- 3. Logan, N.A. (1965) Survey of some early studies of the scattering of the plane waves by a sphere, Proc. IEEE, 53:773-785.
- 4. Lorenz, L. (1890) Videnskab, Selskabs Skrifter, 6:
- Dave, J. V. (1968) Subroutines for computing the parameters of the electromagnetic radiation scattered by a sphere, Report 320-3237.
- 6. Mautz, J.R. (1977) Computer program for the Mie series solution for a sphere, Syracuse University Technical Report TR-77-12.
- Hancock, J.H., and Livingston, P.M. (1974) Program for calculating Mie scattering for spheres, using Kerker's formulation, over a specified particle-size distribution, NRL Report 7808.
- 8. Abramowitz, M., and Stegun, I.A. (1964) Handbook of Mathematical Functions
 With Formulas, Graphs, and Mathematical Tables, National Bureau of
 Standards, U.S. Government Printing Office, Washington, D.C.
- Kerker, M. (1969) The Scattering of Light and Other Electromagnetic Radiation, Academic Press, New York.
- 10. Infeld, L. (1947) The Influence of the width of the gap upon the theory of antennas, Quart. Appl. Math., 5
- 11. Watson, G. (1962) A Treatise on the Theory of Bessel Functions, Cambridge University Press, New York.
- 12. Ruck, G., Barrick, D., Stuart, W., and Krichbaum, C. (1970) Radar Cross Section Handbook, 1, Plenum Press, New York.



Bibliography

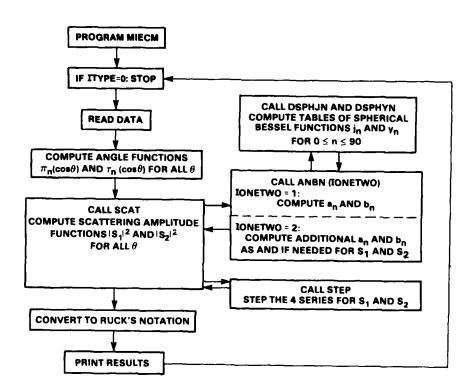
- Abramovitz, M., and Stegun, J. (1964) Handbook of Mathematical Functions With Formulas, Graphs, and Mathematical Tables, National Bureau of Standards, U.S. Government Printing Office, Washington, D.C.
- Aden, A. (1952) Back-scattering of electromagnetic waves from spheres and spherical shells, Geophysical Research Papers, No. 15, Air Force Cambridge Research Center.
- Aden, A. (1951) Electromagnetic scattering from spheres with sizes comparable to the wavelength, J. of Applied. Physics, 22(No. 5):601-605.
- Bowman, J., Senior, T., and Uslenghi, P. (1969) Electromagnetic and Acoustic Scattering by Simple Shapes, North-Holland Publishing Company, Amsterdam.
- Dave, J. (1968) Subroutines for computing the parameters of the electromagnetic radiation scattered by a sphere, IBM Palo Alto Scientific Center Report No. 320-3237.
- Hancock, J., and Livingston, P. (1974) Program for calculating Mie scattering for spheres, using Kerker's formulation, over a specified particle-size distribution, NRL Report 7808, Naval Research Laboratory, Washington, D.C.
- Infeld, L. (1947) The influence of the width of the gap upon the theory of antennas, Quart. Appl. Math., 5:113.
- Kerker, M. (1969) The Scattering of Light and Other Electromagnetic Radiation, Academic Press, New York.
- Logan, N.A. (1962) Early history of the Mie solution, J. Opt. Soc. Am., 52:342-343.
- Logan, N.A. (1965) Survey of some early studies of the scattering of plane waves by a sphere, Proc. IEEE, 53:773-785.
- Mason, J., and Baier, R. (1972) Fortran subroutines to evaluate in single or double precision, Bessel functions of the first and second kinds for integer or half odd-integer orders and positive real arguments, NRL Memorandum Report 2493, Naval Research Laboratory, Washington, D.C.

Bibliography

- Mautz, J. (1977) Computer program for the Mie series solution for a sphere, Syracuse University TR-77-12.
- Ruck, G., Barrick, D., Stuart, W., and Krichbaum, C. (1970) Radar Cross Section Handbook, Vol. 1, Plenum Press, New York.
- Senior, T., and Goodrich, R. (1964) Scattering by a sphere, Proc. IEEE, 3(No. 5):907-916.
- Stratton, J. (1941) Electromagnetic Theory, McGraw-Hill Book Company, Inc.
- Van de Hulst, H. (1957) <u>Light Scattering by Small Particles</u>, John Wiley and Sons, Inc., New York.
- Watson, G. (1962) A Treatise on the Theory of Bessel Functions, Cambridge University Press, New York.

Appendix A

Flow Chart of Program MIECM



Appendix B

Program MIECM Listing

```
PROGRAM MIECM(TAPE1, TAPE2, TAPE6)
                                                                                                                             000100
          COMMON/SCAN/ALL/FACTR, TOL, NTOL, NOUT, PN(19,90), TN(19,90)
COMMON/SCAN/ALF, ANI(162), ANR(162), BNI(162), BNR(162),
CSC, CXT, LMDA, NDEL, NMAX, PI, PNPR(19,3), NCSC, NCXT
                                                                                                                             008110
                                                                                                                             000120
                                                                                                                             000130
          TYPE REAL KA, LMDA
COMMON/MSC/A, DELTH, ITYPE, NMAXSAV, NTOP, THZ
COMMON/MSISC/CAPKSC, CAPKXT, $1$Q(19), $2$Q(19)
DATA(TEST=0.005), (LIM=10)
                                                                                                                             000150
                                                                                                                             000160
                                                                                                                             000170
                                                                                                                             000180
          CALL CONNEC(1)
CALL CONNEC(6)
PI=3.1415926535898
                                                                                                                             000190
                                                                                                                             000200
                                                                                                                             000210
          NMAX SAV=NMAX
          PRINT(6,18)
FORMAT(24(1H+))
                                                                                                                             000230
                                                                                                                             000240
                                                                                                                             000250
     INPUT INITIALIZING INFO
                                                                                                                             000260
                                                                                                                             000270
          PRINT(6,*)"TYPE 1 TO RUN, 0 TO STOP >"
                                                                                                                             000280
          READ (1,*) ITYPE
IF(ITYPE .EQ. 0) GO TO 67
PRINT(6,*)"TYPE 0 FOR KA, 1 FOR FREQ INPUT >"
                                                                                                                             000290
                                                                                                                             000300
                                                                                                                             000310
          READ (1,*) ITYPE
IF(ITYPE.EQ.0) GO TO 22
                                                                                                                             000330
          PRINT(6.*)"INPUT FREQ, RADIUS(CM) >"
READ (1,*) FREQ,A
                                                                                                                             000340
           LMDA=2.998E8/FREQ
                                                                                                                             000360
          A=A+.01
KA=2.0+PI+A/LMDA
                                                                                                                             000370
                                                                                                                             000380
          KA=2.0*P1*A/LHDA
GO TO 25
PRINT(6,*)"INPUT KA, LAMBDA(CM) >"
READ (1,*) KA, LMDA
LMDA=LMDA*.01
                                                                                                                             000390
22
                                                                                                                             000400
                                                                                                                             000410
                                                                                                                             000420
          LMDA=LMDA+.01
A=KA*LMDA/2.0/PI
PRINT(6.*) "INPUT PHI', THETA' SUB ZERO >"
READ (1.*) PHI.THZR
PRINT(6.*) "INPUT DELTA THETA', NUMBER OF THETA' >"
READ (1.*) DELTHR,NRTH
                                                                                                                             000430
25
                                                                                                                             000440
                                                                                                                             000450
                                                                                                                             000460
                                                                                                                             000470
                                                                                                                             000480
          PHI1=PHI+90.0
                                                                                                                             000490
    CONVERT POLARIZATION ANGLES TO RADIANS AND FROM KERKER'S COORDINATE SYSTEM TO RUCK'S COORDINATE SYSTEM
                                                                                                                             000500
                                                                                                                             000510
                                                                                                                             000520
           PHI=(90.0-PHI)*PI/180.0
                                                                                                                             000530
          PHI1=(90.0-PHI1)*PI/180.0
CSPHISQ=COS(PHI)*COS(PHI)
SNPHISQ=SIN(PHI)*SIN(PHI)
                                                                                                                             000540
                                                                                                                             000550
                                                                                                                             000560
          CSPHISQ=COS(PHI1)+COS(PHI1)
SNPHISQ=SIN(PHI1)+SIN(PHI1)
                                                                                                                             000570
000580
           IPHI=IFIX(PHI)
                                                                                                                             000590
           IPHI1=IFIX(PHI1)
                                                                                                                             000000
                                                                                                                             000610
     CONVERT SCATTERING ANGLES FROM RUCK'S THETA' NOTATION
                                                                                                                             000620
    TO KERKER'S THETA NOTATION
SEE REFS. "RADAR CROSS SECTION HANDBOOK, VOL 1" BY RUCK
ET AL, AND "THE SCATTERING OF LIGHT AND OTHER
ELECTROMAGNETIC RADIATION" BY KERKER FOR DETAILS
                                                                                                                             000630
                                                                                                                             000640
                                                                                                                             000650
                                                                                                                             000660
                                                                                                                             000670
          THZ=180.0-THZR
          DELTH=-DELTHR
                                                                                                                             000690
```

```
000700
           PRINT(2.26) NRTH, A, LMDA, KA
FORMAT(14,E11.4,E11.4,F8.3)
FNRTH=FLOAT(NRTH)
                                                                                                                                      000710
28
                                                                                                                                      000720
           PM1=FNRTH/19.
MP1=INT(PM1)
                                                                                                                                      000740
           FMP1=FLOAT(MP1)
                                                                                                                                       000760
           MNRTH=MP1-1

IF(PM1 .GT. FMP1) MNRTH=MP1

NNRTH=NRTH-19+MNRTH
MNRTH=MNRTH+1
                                                                                                                                      000770
                                                                                                                                       000790
          MNRTH=MNRTH+1
D0 66 MRTH=1.MNRTH
NTOP=19
IF(MRTH .EQ. MNRTH) NTOP=NNRTH
D0 26 N=1.NTOP
DTS=(MRTH-1)*19+N-1
TH RAD=(TH Z+DTS-DEL TH)*PI/180.0
COS TH=COS(TH RAD)
SIN TH=SIN(TH RAD)
PN(N,1)=1.0
                                                                                                                                       000800
                                                                                                                                       000810
                                                                                                                                      000820
                                                                                                                                      000840
000850
                                                                                                                                       000860
                                                                                                                                       000870
                                                                                                                                       000880
           PN(N,1)=1.0
PN(N,2)=3.0+COS TH
                                                                                                                                       000890
           TN(N.1)=COS TH
TN(N.1)=COS TH
TN(N.2)=3.0*(COS TH**2-SIN TH**2)
PNPR(N.1)=0.
PNPR(N.2)=3.0
DO 24 K=3,NMAX SAV
                                                                                                                                       000910
                                                                                                                                       000920
                                                                                                                                       000930
                                                                                                                                       000940
                                                                                                                                       000950
                                                                                                                                       000960
           DTS=2.0*DK-1.0
PN(N,K)=COS TH*(DTS/(DK-1.0))*PN(N,K-1)-(DK/(DK-1.0))*PN(N,K-2)
PNFR(N,3)=DTS*PN(N,K-1)+PNPR(N,1)
TN(N,K)=COS TH*PN(N,K)-SIN TH*SIN TH*PNPR(N,3)
PNPR(N,1)=PNPR(N,2)
PNPR(N,2)=PNPR(N,3)
            DTS=2.0+DK-1.0
                                                                                                                                       000970
                                                                                                                                       000980
                                                                                                                                       000990
                                                                                                                                       001000
                                                                                                                                       001010
           CONTINUE
                                                                                                                                        001030
 26
                                                                                                                                        001040
            CALL SCAT
DO 36 I=1,NTOP
                                                                                                                                       001060
      CONVERT SCATTERING ANGLES BACK TO RUCK'S THETA' NOTATION
                                                                                                                                        001080
            THSNGL=THZR+((MRTH-1)*19+I-1)*DELTMR
TS=(LMDA/PI)**2
PRNT1=TS*(S1SQ(I)*CSPHISQ+S2SQ(I)*SNPHISQ)
PRNT1=PRNT1/A**2
                                                                                                                                        001090
                                                                                                                                        001100
                                                                                                                                        001110
                                                                                                                                        001120
            PRNT1=PRNT1/A**2
PRNT2=TS*(51SQ(1)*CSPH1SQ+S2SQ(1)*SNPH1SQ)
PRNT2=PRNT2/A**2
PRINT(2,34) TH SNGL, PRNT1, PRNT2
FORMAT(F6.1,1P,2E11.4)
                                                                                                                                       001130
                                                                                                                                        001150
                                                                                                                                        001160
 36
66
             CONTINUE
                                                                                                                                        001180
             CONTINUE
             PRINT(6.18)
                                                                                                                                        001200
            GO TO 20
            CONTINUE
CALL DISCON(1)
CALL DISCON(6)
  67
                                                                                                                                        001220
                                                                                                                                        001230
             REWIND 2
                                                                                                                                        001250
             END
                                                                                                                                         001260
  000
                                                                                                                                        001270
             SUBROUTINE STEP(I,K,PN FACT,TN FACT,SUM,TERM,NCONSEC,N USED)
```

```
COMMON/ALL/FACTR,TOL,NTGL.KOUT,PN(19,90),TN(19,90)
IF(NCONSEC .EQ. NTGL) RETURN
IERM=FACTR+(PN FACT+PN(I,K)+TN FACT+TN(I,K))
                                                                                                                                           001300
                                                                                                                                           001310
                                                                                                                                           001320
           SUM = SUM+TERM
                                                                                                                                           001330
           N USED=N USED+1
                                                                                                                                           001340
            IF(ABS(TERM/SUM) .GT. TOL) 20,22
                                                                                                                                           001350
20
           N CONSEC#0
                                                                                                                                           001360
           RETURN
                                                                                                                                           001370
           N CONSEC=N CONSEC+1
IF(N CONSEC .EQ. NTOL) KOUT=KOUT+1
22
                                                                                                                                           001380
                                                                                                                                           001390
                                                                                                                                           001400
           RETURN
           END
                                                                                                                                           001420
CCC
                                                                                                                                           001430
          SUBROUTINE SCAT
COMMON/ALL/FACTR, TOL, NTOL, KOUT, PN(19,90), TN(19,90)
COMMON/SCAN/ALF, ANI(162), ANR(162), BNI(162), BNR(162),
1 CSC, CXT, LMDA, NDEL, NMAX, PI, PNPR(19,3), NCSC, NCXT
TYPE REAL LMDA
COMMON/MSISC/CAPKSC, CAPKXT, S1SQ(19), S2SQ(19)
COMMON/MSC/A, DELTH, LTYPE, NMAXSAV, NTOP, THZ
DATA(TOL=1E-3), (NTOL=6), (NMAX=90), (NDEL=10)
NMAX=NMAX SAV
                                                                                                                                           001450
                                                                                                                                           001460
                                                                                                                                           001470
                                                                                                                                           001480
                                                                                                                                           001490
                                                                                                                                           001500
                                                                                                                                           001510
                                                                                                                                           001520
           NMAX=NMAX SAV
ALF=2.0*PI*A/LMDA
I ONE TWO=1
                                                                                                                                           001530
                                                                                                                                           001550
                                                                                                                                           001560
001570
           NLO=1
           NHI=NMAX
           CALL AN BN(I ONE TWO, NLO, NHI, NTAB)
CAP K SC=CSC/(PI+A+A)
CAP K XT=CXT/(PI+A+A)
DO 36 I=1, NTOP
S1R=S1I=S2R='2I=0.
                                                                                                                                           001580
                                                                                                                                           001590
                                                                                                                                           001600
                                                                                                                                           001610
                                                                                                                                           001620
           N S1R=N S11=N S2R=N S2I=0
N S1R TOL=N S1I TOL=N S2R TOL=N S2I TOL=0
K DUT=0
                                                                                                                                           001630
                                                                                                                                           001640
                                                                                                                                           001650
           KLO=1
                                                                                                                                           001660
           KHI=NTAR
                                                                                                                                           001670
26
           DO 30 K=KLO,KHI
                                                                                                                                           001680
           DK=K
                                                                                                                                           001690
          DK=K
FACTR=(2.0+DK+1.0)/(DK+(DK+1.0))
CALL STEP(I,K.ANR(K),BNR(K),SIR.TERM 51R.N SIR TOL.N SIR)
CALL STEP(I,K.ANI(K),BNI(K),SII.TERM 51I.N SII TOL.N SII)
CALL STEP(I,K.BNR(K),ANR(K),SIR.TERM 52R.N SIR TOL.N SII)
CALL STEP(I,K.BNI(K),ANI(K),SIR.TERM 52R.N SIR TOL.N SII)
IF(K OUT .EQ. 4) GO TO 32
CONTINUE

NO. **(10-NT.18+1)
                                                                                                                                           001700
                                                                                                                                           001710
                                                                                                                                           001720
                                                                                                                                           001730
                                                                                                                                           001740
001750
30
                                                                                                                                           001760
           NLO=KLO=NTAB+1
                                                                                                                                           001770
           NHI=KHI=MINO(NTAB+NDEL,NMAX)
                                                                                                                                           001780
           IF(NHI .LT. NLO) GO TO 32
I ONE TWO=2
                                                                                                                                           001790
                                                                                                                                           001800
           CALL AN BN(I ONE TWO, NLO, NHI, NTAB)
           GO TO 26
MINTOL=MINO(NS1RTOL,NS1ITOL,NS2RTOL,NS2ITOL)
                                                                                                                                           001820
32
                                                                                                                                           001830
           IF(MINTOL .LT. NTOL) PRINT(6,33)MINTOL
FORMAT(* CONVERGENCE WARNING--ONLY*13* TERMS SMALL*)
515Q(I)=$1R**2+$11**2
                                                                                                                                           001840
33
                                                                                                                                           001850
                                                                                                                                           001860
            $25Q(1) = $2R++2+$21++2
                                                                                                                                           001870
36
                                                                                                                                           001880
           CONTINUE
                                                                                                                                           001890
```

```
001900
            END
                                                                                                                                                         001910
001920
001930
           SUBROUTINE ANBN(IONETWO,NLO,NHI,NTAB)

COMMON/ALL/FACTR,TOL,NTOL,KOUT,PN(19,90),TN(19,90)

COMMON/SCAN/ALF,ANI(162),ANR(162),BNI(162),BNR(162),

1 CSC,CXT,LMDA,NDEL,NMAX,PI,PNPR(19,3),NCSC,NCXT

TYPE REAL UN,LWDA

DIMENSION JN(300),YN(162)

TYPE COMPLEX AN,BN,HN,HN1,RHON

DATA(CUT=16120)

DATA(CUT=16120)
                                                                                                                                                         001930
001950
001960
001970
001980
                                                                                                                                                         001990
                                                                                                                                                         002010
            IF(IONETWO.EQ.2) GO TO 18
CSC=CXT=0.0
                                                                                                                                                         002020
12
             NCSC=NCXT=NSCTOL=NXTTOL=0
                                                                                                                                                         002040
            CALL SPHUN(ALF,NHI,UN)
CALL SPHYN(ALF,NHI,YN)
16
                                                                                                                                                         002050
                                                                                                                                                         002070
            I=U+1

I=I+1

IF(ABS(UN(I+1)).GT.1E5) JN(I+1)=JN(I+1)/1E270

IF(ABS(YN(I+1)).LT.1E-5) YN(I+1)=YN(I+1)+1E270

IF(ABS(JN(I+1)).GT.1.0/CUT.AND.ABS(YN(I+1)).LT.CUT) GO TO 17

NMAX=NHI=I-2
161
                                                                                                                                                         002090
                                                                                                                                                         002100
                                                                                                                                                         002120
            GO TO 18
IF(I.LT.NHI) GO TO 161
DO 44 N=NLO,NHI
                                                                                                                                                         002130
                                                                                                                                                         002150
             DN=N
             HN=CMPLX(JN(N+1),-YN(N+1))
                                                                                                                                                         002170
            BN=UN(N+1)/HN
SIGMAN=JN(N)/JN(N+1)-DN/ALF
HN1=CMPLX(JN(N),-YN(N))
RHON=HN1/HN-DN/ALF
AN=BN*SIGMAN/RHON
                                                                                                                                                         002180
                                                                                                                                                         002190
                                                                                                                                                         002200
                                                                                                                                                         002210
                                                                                                                                                         002220
           AN=BN*SIGMAN/RHON
ANR(N)=REAL(AN)
ANI(N)=AIMAG(AN)
E R(N)=REAL(EN)
BNI(N)=AIMAG(BN)
IF(IONETWO.EQ.2) GO TO 44
IF(NSCTOL.EQ.NTOL) GO TO 28
TERMSC=(2.0*DN+1.0)*(ANR(N)*ANR(N)*ANI(N)*ANI(N)+
BNR(N)*BNR(N)*BNI(N)+BNI(N))
CSC=CSC+TERMSC
NCSC=NCSC+1
IF(ARS(IEDMSC/CSC).IT TOL) 20.24
                                                                                                                                                         002230
                                                                                                                                                         002240
                                                                                                                                                         002250
                                                                                                                                                         002280
                                                                                                                                                         002290
                                                                                                                                                         002300
                                                                                                                                                         002310
                                                                                                                                                         002320
             IF(ABS(TERMSC/CSC).LT.TOL) 20,24
                                                                                                                                                         002330
                                                                                                                                                         002340
            NSCTOL=NSCTOL+1
GO TO 28
20
                                                                                                                                                         002350
            NSCTOL=0
IF(NXTTOL=0.NTOL) GO TO 40
TERMXT=(2.0=DN+1.0) #ANR(N)+BNR(N)
CXT=CXT+TERMMT
NCXT=NCXT+1
                                                                                                                                                         002360
                                                                                                                                                         002370
                                                                                                                                                         002380
002390
                                                                                                                                                         002400
            IF(ABS(TERMXT/CXT).LT.TOL) 32,36
NXTTOL=NXTTOL+1
                                                                                                                                                         002420
32
            GO TO 40
                                                                                                                                                         002430
             NATTOL=0
36
                                                                                                                                                         002440
                                                                                                                                                         002450
             CONTINUE
             IF(NSCTOL.LT.NTOL.OR.NXTTOL.LT.NTOL) GO TO 44
                                                                                                                                                         002460
                                                                                                                                                         002470
             NTAB=N
             GO TO 48
CONTINUE
                                                                                                                                                         002480
                                                                                                                                                         002490
```

```
NTAB=NHI
                                                                                                                    002500
         IF(IONETWO.EQ.2) RETURN
CSC=CSC+LMDA+LMDA/(2.0+PI)
                                                                                                                    002510
                                                                                                                    002530
002540
          CXT=CXT+LMDA+LMDA/(2.0+PI)
         RETURN
                                                                                                                    002550
          END
CCC
                                                                                                                    002560
                                                                                                                    002570
                                                                                                                    002580
002590
         SUBROUTINE SPHJN(X,N,ARR)
DIMENSION ARR(1)
                                                                                                                    002600
                                                                                                                    002610
002620
          RX=1.E+270
          JTS=ALOG10(RX)+0.5
         DTS=ALOG10(RX)
                                                                                                                    002630
         NF=1
                                                                                                                    002640
                                                                                                                    002650
         NN=N+1
  1F(X.EQ.O.O) GO TO 4
1F(X.LE.O.5) GO TO 6
FOR ORDERS LESS THAN ARGUMENT, AND ARGUMENT GREATER THAN 0.5
                                                                                                                    002660
                                                                                                                    002670
                                                                                                                    002680
         ARR(1)=SIN(X)/X
                                                                                                                    002690
          ARR(2)=ARR(1)/X-COS(X)/X
                                                                                                                    002700
                                                                                                                    002710
         IF(N.LT.X) NM=N-1
IF(NM.LT.0) NM=0
DD 16 I=1,NM
                                                                                                                    002730
                                                                                                                    002740
002750
          FN=1+1
          ARR(I+2)=(FN+1.0)+ARR(I+1)/X-ARR(I)
                                                                                                                    002760
C CHECK FO UNDERFLOW
IF(ARR(I+2).NE.O.O) GO TO 16
                                                                                                                    002770
                                                                                                                    002780
         ARR(I+1)=ARR(I+1)+RX
ARR(I+2)=(FN+1.0)+ARR(I+1)/X-ARR(.;+RX
CONTINUE
                                                                                                                    002790
002800
                                                                                                                    002810
16
    LOWITHOUSE

IF(N.LT.X) RETURN

HOLD=ARR(NM+2)

FOR ORDERS GREATER THAN OR EQUAL TO ARGUMENT, AND

ARGUMENT GREATER THAN 0.5

ALPHA=1.0
                                                                                                                    002820
                                                                                                                    002830
                                                                                                                    002840
002850
C
15
                                                                                                                    002860
         M=-2-NM
NOTE=0
                                                                                                                    002870
                                                                                                                    002880
                                                                                                                    002890
         IF(X/N.GT.0.9) I=I+X/10.0
ARR(I+2)=ALPHA
                                                                                                                    002910
                                                                                                                    002920
          ARR(I+3)=0.0
          1 = -1-1
          DO 2 KK=I,M
                                                                                                                    002940
                                                                                                                    002950
          N00=K+1
                                                                                                                    002960
                                                                                                                    002970
002980
         ARR(K)=TKP1*ARR(K+1)/X-ARR(K+2)
DTS2=ALOG10(TKP1)+ALOG10(ABS(ARR(K+1)))
IF(DTS2.GE.DTS.OR.DTS2-ALOG10(X).GE.DTS) 18.2
TEMPY=ARR(K)=ARR(K+1)/RX*TKP1/X-ARR(K+2)/RX
ARR(K)=ARR(K)*RX
IE(ABS(ARR(K))*RX
                                                                                                                    002990
                                                                                                                    003000
                                                                                                                    003010
18
                                                                                                                    003020
          IF(ABS(ARR(K)).GE.1.0) 24,2
ARR(K)=TEMPY
ARR(K+1)=ARR(K+1)/RX
                                                                                                                    003030
                                                                                                                    003040
24
                                                                                                                    003050
          CONTINUE
C=HOLD/ARR(K)
                                                                                                                    003060
                                                                                                                    003070
         IF(C.NE.O.O) GO TO 14
HOLD#HOLD#RX
```

```
NOTE=NOTE+1
             NO!E=NQ!E+1

GO TO 12

IF(NOTE.EQ.O) GG TO 17

MULT=JTS*NOTE

DO 3 I=K,NN

ARR(I)*ARR(I)*C

CONTIBUE
                                                                                                                                                003110
003120
  14
                                                                                                                                               003120
003130
003140
003150
003160
003170
  17
             CONTINUE
RETURN
       SPECIAL CASE WHERE X EQUALS 0.0
PRINT(6,*) 5
FORMAT(3X*DO NOT USE ZERO ARGUMENT*)
                                                                                                                                                003180
003190
003200
 5
       RETURN
SERIES FOR ARGUMENT LESS THAN OR EQUAL TO 0.5
                                                                                                                                                003210
             EPS=5E-11
                                                                                                                                               003230
             CH=CS=DN=DIV=1.0
DO 10 L=1,NN
ITEXP=NEXPA=MEXPA=LEXPA=0
                                                                                                                                                003250
                                                                                                                                                003260
             NO=L-1
     NO=L-1
IF(L.EQ.1) GO TO 7
CS=CS*X/DN
CHECK FOR UNDERFLOW
IF(CS.NE.O.0) GO TO 7
SCALE FOR THIS N AND ALL FOLLOWINF N
CS*CH*RX*X/DN
NEXPA=NCXPA+1
DN=DN+2.0
CH=CS
                                                                                                                                                003270
                                                                                                                                                003280
                                                                                                                                               003290
003300
                                                                                                                                               003310
                                                                                                                                               003320
                                                                                                                                               003330
                                                                                                                                                003350
            CH=CS
XKK=0.0
                                                                                                                                               003360
                                                                                                                                               003370
            ARREU.V

A=CH2=FORTT=1.0/DIV

TN=2.0*NO

FN=-0.5*X*X

XKK=XKK+1.0

FD=XKK*(TN+XKK+XKK+1.0)
                                                                                                                                               003380
                                                                                                                                               003400
                                                                                                                                               003410
                                                                                                                                               003420
A=A=FN/FD

C CHECK FOR UNDERFLOW

IF(A.NE.O.O) GO TO 25

C SCALE FOR THIS N AND ALL FOLLOWING N

A=CH2+RX-FN/FD
                                                                                                                                               003430
                                                                                                                                               003450
                                                                                                                                               003460
003470
            DIV=DIV/RX
MEXPA=MEXPA+1
                                                                                                                                               003480
                                                                                                                                               003490
             FORTT=FORTT+RX
                                                                                                                                               003500
25
            CH2=A
TT=A+FORTT
                                                                                                                                               003510
            IF(TT .EQ. 0.0 .GR. ABS(A/TT) .LT. EPS) GO TO 9 FORTT=TT
                                                                                                                                              003530
003540
     FORTT=TT
GO TO 8
ARR(L)=CS*TT
CHECK FOR UNDERFLOW
IF(ARR(L).NE.O.O) GO TO 31
SCALE FOR THIS N AND ALL FOLLOWING N
ARR(L)=CS*RX*TT
DIV=DIV/RX
LEXPA=LEXPA+1
ITEXP=NEXPA+MEXPA+LEXPA
                                                                                                                                               003550
                                                                                                                                               003560
                                                                                                                                               003570
                                                                                                                                              003580
                                                                                                                                              003590
                                                                                                                                              003600
                                                                                                                                              003610
31
10
            ITEXP=NEXPA+MEXPA+LEXPA
CONTINUE
                                                                                                                                              003630
                                                                                                                                              003640
                                                                                                                                              003650
000
                                                                                                                                              003660
                                                                                                                                              003680
            SUBROUTINE SPHYN(X,N,ARR)
                                                                                                                                              003690
```

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```
003700
003710
003720
003730
           DIMENSION ARR(1)
           RX=1.E+270

DTS=ALOG:0(RX)

1F(X.EQ.0.0) 5.3

PRINT(6,*) "DO NOT USE ZERO ARGUMENT FOR YN"
                                                                                                                                           003740
003750
003760
    RETURN
FIND YO AND YI
           ARR(1)=-COS(X)/X
                                                                                                                                            003770
           ARR(2)=ARR(1)/X-SIN(X)/X
NM1=N-1
                                                                                                                                           003780
003790
           DO 2 K=1, NM1
TKP1=K+K+1
ARR(K+2)=TKP1*ARR(K+1)/X-ARR(K)
                                                                                                                                           003800
                                                                                                                                           003820
C CHECK FOR UNDERFLOW

DTS2=ALOG10(TKP1)+ALOG10(ABS(ARR(K+1)))

IF(DTS2.GE.DTS.OR.DTS2-ALOG10(X).GE.DTS)

8 ARR(K+1)=ARR(K+1)/RX

ARR(K+2)=TKP1+ARR(K+1)/X-ARR(K)/RX
                                                                                                                                           003830
                                                                                                                                            003840
                                                                                                                                           003850
003860
                                                                                                                                            003870
                                                                                                                                           003880
003890
003900
           CONTINUE
RETURN
           END
```

のは、これのではない。これがあるとなる。

Tables

This section contains a comprehensive set of theoretical scattering tables for conducting spheres. Each table lists normalized cross section $(\sigma/\pi a^2)$ for both E-Plane and H-Plane at 2-degree intervals from backscatter (angle = 0°) to forward scatter (angle = 180°) for a particular ka value. The ka values range from 0.2 to 40.0 at intervals of 0.2 and are accurate to at least four significant figures.

BISTATIC SCATTERING FROM CONDUCTING SPHERE

	NORMALIZED CROSS SECTION	H-PLANE		3.6539E-03	3.5165E-03	3.384BE-03	3.2588E-03	3.1384E-03	3.0236E-03	2.9143E-03	2.8106E-03	2.7122E-03	2.6192E-03	2.5315E-03	2.4490E-03	2.3716E-03	2.2992E-03	2.2318E-03	2.1692E-03	2.1114E-03	2.0583E-03	2.0098E-03	1.9657E-03	1.9262E-03	1.8910E-03	1.8601E-03	1.8334E-03	1.8110E-03	1.7927E-03	1.77855-03	1.7684E-03	1.76236-03	1.7603E-03	
	NORMAL 12ED (E-PLANE		1.3140E-05	3.6004E-05	6.9296E-05	1.1219E-04	1.6334E-04	2.2336E-04	2.89335-04	3.62375-04	4.4000E-04	5.21R5E-04	6.0693E-04	6.94321-04	7.8311E-04	8.7238E-04	9.6126E-04	1.04:395-03	1.13/146-03	1.2171E-03	1.2951E-03	1.3707E-03	1.4404E-03	1.5044E-03	1.5623E-03	1.61356-03	1.6575E-03	1.6941E-03	1.7229E-03	1.7436E-03	1.7561E-03	1.7603E-03	
		ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	159.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
	NORMALIZED CROSS SECTION	H-PLANE		9.8494E-03	9.6133E-03	9.3759E-03	9.1378E-03	8.8992E-03	8.660CE-03	8.4225E-03	8.1852E-03	7.9492E-03	7.7147E-03	7.4822E-03	7.2519E-03	7.0243E-03	6.7997E-03	6.5783E-03	6.3604E-03	6.1463E-03	5.9362E-03	5.7305E-03	5.5292E-03	5.3326E-03	5.1408E-03	4.9541E-03	4.7725E-03	4.5962E-03	4.4253E-03	4.2598E-03	4.0999E-03	3.9456E-03	3.7969E-03	
KA*	NORMALIZED C	E-PLANE		5.9484E-03	5.5695E-03	5.1968E-03	4.8313E-03	4.4741E-03	4.1261E-03	3.7884E-03	3.4617E-03	3.1470E-03	2.8450E-03	2.5563E-03	2.2817E-03	2.0216E-03	1.7766E-03	1.5470E-03	1,3332E-03	1.1355E-03	9.5391E-04	7.8868E-04	6.3978E-04	5.0717E-04	3.9070E-04	2.5018E-04	2.05335-04	1.3580E-04	8.11965-05	4.1026E-05	1.4757E-05	1.7942E-06	1.4880E-06	
		ANGLE	1 1 1 1	62.0	64.0	0.99	0.89	10.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	0.06	95.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
	NORMALIZED CROSS SECTION	H-PLANE		1.4293E-02	1.4233E-02	1.4271E-02	1.4244E-02	1.4205E-02	1.4155E-02	1.4095E-02	1.4024E-02	1.3943E-02	1.3851E-02	1.3749E-02	1.36376-02	1.3516E-02	1.3386E-02	1.3246E-02	1.30986-02	1.29415-02	1.27765-02	1.2604E-02	1.2424E-02	1.2237E-02	1.2044E-02	1.1845E-02	1.1640E-02	1.1430E-02	1.1215E-02	1.0996E-02	1.0773E-02	1.0546E-02	1.0316E-02	1.0084E-02
	NORMALIZED (E-PLANE		1.4293E-02	1.4282E-02	1.4247E-12	1.4189E-02		1.4005E-02				ĭ	1.3167E-02			1.2429E-02	1.2148E-02		1.1542E-02		۲	۲	۲	.8109E-C	۲	۲	ĭ		ĭ	۲	1102E-C	6.7199E-03	6.33236-03
		ANGLE	1	0.0	5.0	4 .0	0.9	8	10.0	12.0	14.0	16. د	18.0	20.0	22.0	24.0	26.0	23.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	26.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

CROSS SECTION	H-PLANE		6.71856-02	8.4967E-02	6.2831E-02	6.0780E-02	5.6812E-02	5.6929E-02	5.51306-02	5.3415E-02	5.1784E-02	S.0236E-02	4.8772E-02	4.73896-02	4 . 6088E-02	4.48686-02	4.3728E-02	4.2667E-02	4.1684E-02	4.0779E-02	3.9950E-02	3.91966-02	3.85176-02	3.79126-02	3.7360E-02	3.6021E-02	3.6533E-02	3.62166-02	3.5071E-02	3.5796E-02	3.5680E-02	2. BEECL-02	
٥	E-PLANE		8.34156-04	1.4748E-03	2.2925E-03	3.2730E-03	4.4017E-03	5.66:2E-03	7.0418E-03	8.5214F-03	1.0085E-02	1.17186-02	1.3401E-02	1.51196-02	1.6856E-02	1.85046-02	2.03196-02	2.20146-02	2.36045-02	2.5255F-02	2.6774E-02	2.8207E-02	2.9542E-02	3.0768E-02	3.18755-02	3.2853E-02	3.3695E-02	3.43936-02	3.4942E-02	3.5337E-02	3.55768-02	3.56556-02	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
OSS SECTION	H-PLANE		1.6088E-01	1.5748E-01	1.5406E-01	1.5061E-01	1.4714E-01	1.4366E-01	1.4018E-01	1.3669E-01	1.3321E-01	1.2975E-01	1.2629E-01	1.2286E-01	1.1945E-01	1.1608E-01	1.1274E-01	1.0944E-01	1.0618E-01	1.0297E-01	9.9820E-02	9.6722E-02	9.3684E-02	9.0709E-02	8.7800E-02	8.4960E-02	8.2191E-02	7.9495E-02	7.6875E-02	7.4333E-02	7.1870E-02	6.9487E-02	
NORMALIZED CROSS SECTION	E-PLANE		9.2067E-02	8.6081E-02	8.0189E-02	7.4409E-02	6.87596-02	6.32566-02	5.7915E-02	5.2751E-02	4.7778E-02	4.3009E-02	3.8457E-02	3.4132E-02	3.0044E-02	2.6202E-02	2.2613E-02	1.9284E-02	1.6220E-02	1.3423E-02	1.0897E-02	8.6432E-03	6.6607E-03	4.9482E-03	3.5030E-03	2.3212E-03	1.3974E-03	7.25166-04	2.9696E-04	1.0403E-04	1.3660E-04	3.8388E-04	
	ANGLE	111111	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION	H-PLANE		2.22916-01	2.2284E-01	2.2261E-01	2.2224E-01	2.2171E-01	2.2104E-01	2.2021E-01	2.1925E-01	2.1814E-01	2.1688E-01	2,15495-01	2.1396E-01	2.1230E-01	2.1051E-01	2.0859E-01	2.0655E-01	2.0439E-01	2.0211E-01	1.9972E-01	1.9723E-01	1.9463E-01	1.9194E-01	1.8916E-01	1.8629E-01	1.8334E-01	1.8031E-01	1.7722E-01	1.7405E-01	1.7083E-01	1.6756E-01	1.6424E-01
NORMALIZED C	E-PLANE		2.2291E-01	2.22735-01	2.2219E-01	2.2129E-01	2.2004E-01	2.18435-01	2.1648E-01	2.1419E-01	2.1157E-01	2.0863E-01	2.0538E-01	2.01835-01	1.97986-01	1.9387E-01	1.8949E-01	1.84875-01	1.8001E-01	1.7495E-01	1.6968E-01	1.6424E-01	1.5664E-01	1.5290E-01	1.4704E-01	1.4107E-01	1.3502E-01	1.2891E-01	1.2276E-01	1.1658E-01	1.1041E-01	1.0425E-01	9.8130E-02
	ANGLE		0.0	0.7	9	9.0	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

CONTROL OF STREET STREET

BISTATIC SCATTERING FROM CONDUCTING SPHERE

ΚA≖

NORMALIZE F-DIAVE	ED CROSS SECTION	A CON	E-DIANE	F-DIAME H-DIAME	ANGLE	F-P. ANF	F-P. ANF H-PLANF
+	0 1.0451E+00	62.0	4.3210E-01	8.0520E-01	122.0	1.3684E-02	3.9201E-01
	0 1.0448E+00	64.0	4.0363E-01	7.9138E-01	124.0	1.8719E-02	3.81276-01
+	-	0.99	3.7557E-01	7.7736E-01	126.0	2.4700E-02	3.7089E-01
•	00 1.0426E+00	68.0	3.4803E-01	7.6316E-01	128.0	3.1552E-02	3.6086E-01
1.0318E+0	0 1.0407E+00	70.0	3.2109E-01	7.4882E-01	130.0	3.91º5E-02	3.5119E-01
+	0 1.0382E+00	72.0	2.9482E-01	7.3434E-01	132.0	4.754GE-02	3.4190E-01
+	0 1.0351E+00	74.0	2.69335-01	7.1975E-01	134.0	5.6520E-02	3.3298E-01
	0 1.0315E+00	76.0	2.4468E-01	7.0507E-01	136.0	6.6026E-02	3.2445E-01
- 1	1 1.0274E+00	78.0	2,2094E-01	6.9033E-01	138.0	7.59758-02	3.16296-01
	-	80.0	1.98195-01	6.7554E-01	140.0	8.62748-02	3.0852E-01
	-	82.0	1,7650E-01	6.6073E-01	142.0	9.682RE-02	3.0113E-01
1	1 1.0119E+00	84.0	1.5592E-01	6.4593E-01	144.0	1.07546-01	2.9413E-01
1	1 1.0057E+00	96.0	1,36516-01	6.3115E-01	146.0	1.18336-01	2.8753E-01
1	1 9.98946-01	88.0	1.18326-01	6.1641E-01	148.0	1.2909E-01	2.8130E-01
- 1	1 9.91726-01	0.06	1,01395-01	6.0174E-01	150.0	1.3973E-01	2.7547E-01
8.6880E-0	1 9.8402E-01	92.0	8.5772E-02	5.8716E-01	152.0	1.501GE-01	2.7003E-01
1	1 9.7583E-01	94.0	7.1484E-02	5.72706-01	154.0	1.60 JOE-01	2.6497E-01
•		0.96	5.8556E-02	5.5836E-01	156.0	1.7006E-01	2.6029E-01
1	1 9.5809E~01	0.86	4.7009E-02	5.4417E-01	158.0	1.7936E-01	2.5600E-01
٠	1 9.4855E-01	100.0	3,6853E-02	5.3015E-01	160.0	1.8813E-01	2.5209E-01
7.46345-0	1 9.3858E-01	102.0	2.8094E-02	5.16326-01	162.0	1.9629E-01	2.4856E-01
7.19435-0	1 9.2820E-01	104.0	2.0732E-02	5.0270E-01	164.0	2.0378E-01	2.4541E-01
6.91935-0	1 9.17426-01	106.0	1.4758E-02	4.8930E-01	166.0	2.1054E-01	2.4263E-01
6.63865-0		108.0	1.0156E-02	4.7615E-01	168.0	2.1651E-01	2.4023E-01
6.3539E-0		110.0	6.9042E-03	4.6325E-01	170.0	2.2164E-01	2.3820E-01
	1 8.8285E-01	112.0	4.9743E-03	4.5062E-01	172.0	2.2590E-01	2.3654E-01
1	01 8.7063E-01	114.0	4.3305E-03	4.3827E-01	174.0	2.2924E-01	2.3525E-01
5.4837E-0		116.0	4.9308E-03	4.2623E-01	176.0	2.3165E-01	2.3433E-01
		118.0	6.7269E-03	4.1450E-01	178.0	2.3311E-01	2.337BE-01
		120.0	9.6645E-03	4.0309E-01	180.0	2.3359E-01	2.33596-01
4.6091F-0	1 8.1880E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

100000000000000000000000000000000000000	ANGLE	NORMALIZED (E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED C E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED (E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
2.5950E+00 62.0 1.146E+00 2.1571E+00 1.22.0 2.5942E+00 64.0 1.0437E+00 2.126E+00 122.0 2.5942E+00 66.0 9.0486E+01 2.015E+00 124.0 2.5942E+00 66.0 9.0486E+01 2.015E+00 128.0 2.5942E+00 70.0 8.3732E+01 130.0 130.0 2.5944E+00 74.0 7.0713E+01 136.0 130.0 2.594E+00 77.0 7.0713E+01 130.0 134.0 2.594E+00 76.0 6.4503E+01 134.0 134.0 2.594E+00 76.0 6.4503E+01 134.0 140.0 2.597E+00 80.0 5.2757E+01 1899E+00 140.0 2.597E+00 80.0 5.2757E+01 1480E+00 140.0 2.597E+00 80.0 3.7146E+01 1.783E+00 148.0 2.597E+00 80.0 3.254E+01 1.6957E+00 148.0 2.597E+00 90.0 2.434E+01 1.6957E+00 150.0						11111111		1 1 1 1 1 1 1 1	
2.5956E+00 64.0 1 0437E+00 2.1296E+00 124.0 2.5918E+00 66.0 9.737E+01 2.1056E+00 126.0 2.5918E+00 66.0 9.737E+01 2.0434E+00 126.0 2.5918E+00 72.0 7.713E+01 2.0434E+00 130.0 2.593E+00 74.0 7.773E+01 1.9525E+00 132.0 2.573E+00 76.0 6.4503E+01 1.9525E+00 132.0 2.5593E+00 76.0 6.4503E+01 1.9525E+00 136.0 2.5593E+00 80.0 5.8503E+01 1.953E+00 142.0 2.5593E+00 82.0 4.7267E+01 1.8598E+00 144.0 2.5593E+00 82.0 4.7267E+01 1.8598E+00 144.0 2.5494E+00 86.0 4.7267E+01 1.853E+00 144.0 2.5491E+00 88.0 3.254E+01 1.7564E+00 166.0 2.456E+00 90.0 2.643E+01 1.653E+00 166.0 2.456E+00 90.0 2.674E+01 1.653E+00 166.0 <td></td> <td>2.5960£+00</td> <td>2.5960E+00</td> <td>62.0</td> <td>1,1146E+00</td> <td>2.1571E+00</td> <td>122.0</td> <td>9.8661E-02</td> <td>1.2338E+00</td>		2.5960£+00	2.5960E+00	62.0	1,1146E+00	2.1571E+00	122.0	9.8661E-02	1.2338E+00
2.5942E+00 66.0 9.7373E-01 2.1015E+00 126.0 2.5916E+00 68.0 9.0486E-01 2.0136E+00 128.0 2.5916E+00 70.0 7373E-01 2.0434E+00 132.0 2.5916E+00 70.0 7.07136E-01 2.0136E+00 132.0 2.5916E+00 76.0 7.07136E-01 1.9833E+00 134.0 2.593E+00 76.0 5.8509E-01 1.9225E+00 134.0 2.593E+00 80.0 5.8509E-01 1.9213E+00 144.0 2.5397E+00 80.0 5.2757E-01 1.8258E+00 144.0 2.5397E+00 84.0 4.2058E-01 1.7735E+00 144.0 2.5397E+00 86.0 3.746E-01 1.7734E+00 146.0 2.5397E+00 86.0 3.2548E-01 1.7535E+00 146.0 2.5413E+00 98.0 2.277E-01 1.7535E+00 146.0 2.454E+00 99.0 2.4348E-01 1.5534E+00 156.0 2.455E+00 99.0 2.743E-01 1.5534E+00		2.59416+00	2.5956E+00	64.0	1.0437E+00	2.1296E+00	124.0	1.1700E-01	1.2071E+00
2.5918E+00 68.0 9.0486E-01 2.0428E+00 128.0 2.5844E+00 70.0 8.3732E-01 2.0434E+00 130.0 2.5844E+00 74.0 7.0713E-01 1.9833E+00 134.0 2.5793E+00 76.0 6.4503E-01 1.9833E+00 134.0 2.5562E+00 78.0 5.4503E-01 1.9833E+00 134.0 2.5562E+00 78.0 5.8503E-01 1.9825E+00 134.0 2.5593E+00 80.0 5.2757E-01 1.8898E+00 140.0 2.5397E+00 86.0 3.7146E-01 1.7535E+00 142.0 2.5496E+00 86.0 3.7146E-01 1.7535E+00 146.0 2.5497E+00 86.0 3.7146E-01 1.7535E+00 146.0 2.4416E+00 90.0 2.4348E-01 1.7535E+00 150.0 2.454E+00 90.0 2.4348E-01 1.5578E+00 150.0 2.4516E+00 90.0 1.4714E-01 1.5534E+00 150.0 2.4516E+00 90.0 1.4748E-01 1.5544E+00		2.5882E+00	2.5942E+00	0.99	9.7373E-01	2.1015€+00	126.0	1.3812E-01	1.1811E+00
2.5648E+00 2.5886E+00 70.0 8.3732E-01 2.0434E+00 130.0 2.57474+00 2.5944E+00 7.0 7.7136E-01 2.0136E+00 132.0 2.5261E+00 2.5793E+00 76.0 6.4503E-01 1.9556E+00 132.0 2.5012E+00 2.5793E+00 76.0 6.4503E-01 1.9556E+00 136.0 2.404E+00 2.5494E+00 80.0 5.8509E+01 1.8596E+00 142.0 2.404E+00 2.5290E+00 80.0 4.7567E-01 1.8596E+00 144.0 2.334E+00 2.5290E+00 80.0 4.7567E-01 1.8596E+00 144.0 2.3234E+00 2.5173E+00 80.0 4.756E+01 1.7595E+00 144.0 2.2780E+00 2.5173E+00 80.0 2.848E-01 1.7594E+00 144.0 2.2780E+00 2.4913E+00 90.0 2.848E-01 1.7594E+00 1.657E+00 2.1782E+00 2.4759E+00 90.0 2.374E+01 1.557E+01 1.5976E+00 150.0 2.1782E+00 2.4759E+00 90.0 <td></td> <td>2.5784E+00</td> <td>2.5918E+00</td> <td>68.0</td> <td>9.0486E-01</td> <td>2.0728E+00</td> <td>128.0</td> <td>1.6183E-01</td> <td>1.1559E+00</td>		2.5784E+00	2.5918E+00	68.0	9.0486E-01	2.0728E+00	128.0	1.6183E-01	1.1559E+00
2.5474E+00 2.5844E+00 2.5474E+00 2.0136E+00 132.0 2.5511E+00 2.5732E+00 74.0 7.073E-01 1.9833E+00 134.0 2.5012E+00 2.5732E+00 74.0 7.073E-01 1.9852E+00 134.0 2.4726E+00 2.5652E+00 78.0 5.8509E-01 1.9213E+00 138.0 2.4076E+00 2.5397E+00 80.0 5.2757E-01 1.8898E+00 144.0 2.3657E+00 2.5397E+00 80.0 5.2757E-01 1.8859E+00 144.0 2.3657E+00 2.5306E+00 80.0 3.746E-01 1.8258E+00 144.0 2.3234E+00 2.513E+00 86.0 3.746E-01 1.753E+00 144.0 2.2295E+00 2.540E+00 90.0 2.827E+01 1.753E+00 146.0 2.2295E+00 2.4013E+00 90.0 2.2438E+01 1.5636E+00 156.0 2.1782E+00 2.445E+00 90.0 2.273E+00 1.5636E+00 156.0 2.068E+00 2.445E+00 96.0 1.474E+01 1.593E+00		2.564BE+00	2.5886E+00	70.0	8.3732E-01	2.0434E+00	130.0	1.8789E-01	1.1316E+00
2.5251E+00 2.5793E+00 74.0 7.0719E-01 1.9833E+00 134.0 2.5012E+00 2.5793E+00 76.0 6.4503E-01 1.9523E+00 136.0 2.4726E+00 2.5662E+00 76.0 6.4503E-01 1.9838E+00 140.0 2.4404E+00 2.5593E+00 80.0 5.275F-01 1.8576H+00 142.0 2.4047E+00 2.5397E+00 82.0 4.726F-01 1.8576H+00 142.0 2.3657E+00 2.5290E+00 2.5397E+00 86.0 3.7146E-01 1.7935E+00 144.0 2.2295E+00 2.5048F+00 90.0 2.637E+01 1.7935E+00 146.0 2.2295E+00 2.5048F+00 90.0 2.637E+00 1.760E+00 1.760E+00 2.1782E+00 2.4913E+00 90.0 2.077E+01 1.7534E+00 156.0 2.1782E+00 2.4516E+00 90.0 2.077E+01 1.5534E+00 156.0 2.0086E+00 2.4454E+00 90.0 2.077E+01 1.5534E+00 156.0 2.0086E+00 2.4454E+00 1.0764E		2.5474E+00	2.5844E+00	72.0	7.7136E-01	2.0136E+00	132.0	2.1605E-01	1.1080E+00
2.5012E+00 2.5732E+00 76.0 6.4503E+01 1.9525E+00 136.0 2.4404E+00 2.5583E+00 80.0 5.8503E+00 140.0 142.0 2.4404E+00 2.563E+00 80.0 4.7567E+01 1.8896E+00 142.0 2.4604E+00 2.539AE+00 80.0 4.7567E+01 1.859E+00 144.0 2.3534E+00 2.5290E+00 86.0 4.7567E+01 1.859E+00 144.0 2.2780E+00 2.513E+00 86.0 3.248E+01 1.753E+00 144.0 2.2780E+00 2.513E+00 90.0 2.848E+01 1.7544E+00 144.0 2.1782E+00 2.4913E+00 90.0 2.834E+01 1.7544E+00 150.0 2.1782E+00 2.4759E+00 90.0 2.071E+01 1.5636E+00 150.0 2.086E+00 2.455E+00 90.0 2.071E+01 1.557E+00 150.0 2.086E+00 2.455E+00 90.0 1.7248E+01 1.597E+00 150.0 2.086E+00 2.475E+00 90.0 1.2748E+01 1.597		2.5261E+00	2.5793E+00	74.0	7.0719E-01	1.9833E+00	134.0	2.4607E-01	1.0854E+00
2.4726£+00 2.5662E+00 78.0 5.8599E-01 1.9213E+00 138.0 2.4046£+00 2.5583E+00 80.0 5.2757E-01 1.8899E+00 140.0 2.4047£+00 2.5397E+00 2.5494E+00 80.0 5.2757E-01 1.8859E+00 144.0 2.3657E+00 2.5397E+00 86.0 3.7146E-01 1.7859E+00 144.0 2.3234E+00 2.5173E+00 86.0 3.7146E-01 1.750E+00 144.0 2.2780E+00 2.5173E+00 90.0 2.8277E-01 1.750E+00 146.0 2.1782E+00 2.4913E+00 90.0 2.8277E-01 1.750E+00 150.0 2.086E+00 2.445E+00 94.0 2.0771E-01 1.6530E+00 156.0 2.086E+00 2.445E+00 96.0 1.7557E-01 1.6530E+00 156.0 2.086E+00 2.445E+00 98.0 1.474E-01 1.533E+00 156.0 1.8842E+00 2.445E+00 98.0 1.474E-01 1.533E+00 162.0 1.8842E+00 2.3913E+00 100.0		2.5012E+00	2.5732E+00	76.0	6.4503E-01	1.9525E+00	136.0	2.7769E-01	1.0636E+00
2.4404£+00 2.5583E+00 80.0 5.2757E-01 1.8898E+00 140.0 2.3657E+00 2.5397E+00 4.7267E-01 1.8579E+00 142.0 2.3657E+00 2.5397E+00 86.0 3.7146E-01 1.8579E+00 144.0 2.3234E+00 2.5290E+00 2.5178E+00 1.7526H+00 146.0 2.2295E+00 2.5048E+00 98.0 3.2548E-01 1.7544E+00 148.0 2.1782E+00 2.4913E+00 92.0 2.4348E-01 1.7544E+00 152.0 2.1782E+00 2.4516E+00 96.0 1.4714E-01 1.6957E+00 152.0 2.066E+00 2.454E+00 96.0 1.4714E-01 1.5978E+00 152.0 2.066E+00 2.454E+00 10.0 1.2548E+01 1.5978E+00 156.0 1.947E+00 2.4102E+00 10.0 1.2548E+01 1.5978E+00 164.0 1.8191E+00 2.3913E+00 104.0 1.466E-02 1.4334E+00 166.0 1.816E+00 2.3916E+00 10.0 1.4366E-02 1.4334E+00 1.4		2.4726E+00	2.5662E+00	78.0	5.8509E-01	1.9213E+00	138.0	3.1064E-01	1.0427E+00
2.4047E+00 2.5494E+00 82.0 4.7567E+01 1.859E+00 144.0 2.3234E+00 2.5290E+00 84.0 4.2058E+01 1.793E+00 144.0 2.2780E+00 2.5173E+00 88.0 3.2548E+01 1.761E+00 144.0 2.2780E+00 2.5173E+00 88.0 3.2548E+01 1.761E+00 148.0 2.2780E+00 2.4913E+00 90.0 2.8277E+01 1.7544E+00 152.0 2.124ZE+00 2.475E+00 94.0 2.077E+01 1.6504E+00 155.0 2.086E+00 2.475E+00 94.0 2.077E+01 1.6504E+00 155.0 2.086E+00 2.475E+00 96.0 1.754E+00 156.0 156.0 2.086E+00 2.475E+01 1.6504E+00 159.0 150.0 150.0 3.005E+00 2.475E+00 1.016E+00 96.0 1.2748E+01 1.5576E+00 159.0 1.8191E+00 2.475E+00 1.016E+00 96.0 1.2748E+01 1.5576E+00 150.0 1.8150E+00 2.3716E+00 1.0		2.44045+00	2.5583E+00	80.0	5.2757E-01	1.8898E+00	140.0	3.4462E-01	1.0228E+00
2.3657E+00 2.5397E+00 2.5397E+00 4.2058E-01 1.8258E+00 144.0 2.2734E+00 2.5397E+00 2.5397E+00 1.7610E+00 1.7610E+00 146.0 2.2736E+00 2.5173E+00 2.608E+00 2.608E+00 1.7610E+00 146.0 2.2736E+00 2.4756E+00 2.4756E+00 2.4756E+00 1.7546E+00 150.0 2.0876E+00 2.4756E+00 2.4756E+00 96.0 1.7757E+01 1.6630E+00 150.0 2.0876E+00 2.4756E+00 96.0 1.774E+01 1.6530E+00 150.0 2.0876E+00 2.4756E+00 96.0 1.774E+01 1.6530E+00 150.0 1.8191E+00 2.4756E+00 10.0 1.2748E+01 1.5576+00 150.0 1.8191E+00 2.3913E+00 10.0 1.2748E+01 1.5532E+00 162.0 1.8191E+00 2.3913E+00 104.0 8.453E+00 1.640E+00 1.7334E+00 162.0 1.8191E+00 2.3916E+00 100.0 7.1486E-02 1.4076E+00 1.70.0 1.6846E+00<		2.4047E+00	2.5494E+00	82.0	4.7267E-01	1.8579E+00	142.0	3.7936E-01	1.0037E+00
2.3234E+00 2.5290E+00 86.0 3.7146E=01 1.793EE+00 146.0 2.2736E+00 2.5196E+00 2.513E+00 88.0 3.2548E=01 1.753EE+00 148.0 2.1780E+00 2.4913E+00 92.0 2.4348E=01 1.7546E+00 152.0 2.1782E+00 2.4913E+00 94.0 2.077E=01 1.6957E+00 152.0 2.0676E+00 2.4616E+00 96.0 1.4714E=01 1.6334E+00 155.0 2.0676E+00 2.4454E+00 98.0 1.4714E=01 1.5978E+00 156.0 1.9446E+00 2.4454E+00 100.0 1.2724E=01 1.5978E+00 156.0 1.916E+00 2.4102E+00 100.0 1.2724E=01 1.5978E+00 166.0 1.8191E+00 2.3913E+00 104.0 8.4639E+02 1.5013E+00 164.0 1.8191E+00 2.3916E+00 100.0 1.4366E=02 1.4334E+00 166.0 1.6150E+00 2.3295E+00 110.0 5.2466E=02 1.4334E+00 170.0 1.5446E+00 2.3295E+00 1		2.36576+00	2.5397E+00	84.0	4.2058E-01	1.8258E+00	144.0	4.1457E-01	9.8567E-01
2.2780E+00 2.5173E+00 88.0 3.2548E+01 1.760E+00 1.690E+00 1.6957E+00 1.6957E+00 1.6957E+00 1.50.0 1.5		2.3234E+00	2.5290E+00	86.0	3.7146E-01	1.7935E+00	146.0	4.4995E-01	9.6855E-01
2.2395E+00 2.5048E+00 90.0 2.8277E+01 1.724E+00 150.0 2.1782E+00 2.4769E+00 2.4769E+00 2.4769E+00 1.650E+00 1.650E+00 152.0 2.0676E+00 2.4616E+00 96.0 1.757E-01 1.6630E+00 152.0 2.0676E+00 2.4616E+00 96.0 1.774E-01 1.6630E+00 156.0 2.0676E+00 2.462E+00 96.0 1.774E-01 1.6304E+00 156.0 1.9474E+00 2.463E+00 102.0 1.474E-01 1.5634E+00 158.0 1.8842E+00 2.4102E+00 102.0 1.744E-01 1.5654E+00 162.0 1.8842E+00 2.3913E+00 104.0 8.4639E-02 1.4697E+00 162.0 1.6843E+00 2.3913E+00 104.0 8.4659E-02 1.4697E+00 166.0 1.6150E+00 2.3716E+00 110.0 5.6643E+02 1.4076E+00 172.0 1.6150E+00 2.3295E+00 110.0 5.6643E-02 1.4076E+00 172.0 1.4019E+00 2.2802E+00 1		2.2780E+00	2.5173E+00	88.0	3.254BE-01	1.7610E+00	148.0	4.8521E-01	9.5241E-01
2.413E+00 92.0 2.4348E-01 1.6557E+00 152.0 94.0 2.4759E+00 95.0 2.0775E-01 1.65304E+00 154.0 152.0 94.0 2.0771E-01 1.65304E+00 156.0 98.0 1.4714E-01 1.5578E+00 156.0 158.0 2.4454E+00 100.0 1.4714E-01 1.5578E+00 158.0 158.0 2.4352E+00 100.0 1.27146E-01 1.5532E+00 158.0 158.0 2.3913E+00 104.0 8.4639E-02 1.5013E+00 162.0 2.3716E+00 106.0 7.1486E-02 1.4637E+00 166.0 2.3295E+00 110.0 5.6643E-02 1.4876E+00 170.0 2.3295E+00 110.0 5.6643E-02 1.4876E+00 170.0 2.3295E+00 116.0 6.5192E-02 1.3172E+00 170.0 2.2802E+00 116.0 6.5192E-02 1.3180E+00 176.0 2.1841E+00 116.0 6.3192E-02 1.3180E+00 176.0 2.3295E+00 116.0 6.3192E-02 1.3180E+00 176.0 2.3101E+00 120.0 8.3298E-02 1.2812E+00 180.0		2.2295E+00	2.5048E+00	0.06	2.8277E-01	1.7284E+00	150.0	5.2006E-01	9.3723E-01
2.4569E+00 94.0 2.0771E-01 1.6630E+00 154.0 2.4616E+00 96.0 1.7557E-01 1.6304E+00 156.0 2.4454E+00 98.0 1.7577E-01 1.6304E+00 156.0 2.432E+00 100.0 1.2248E-01 1.5554E+00 160.0 2.315E+00 102.0 1.0164E-01 1.532E+00 162.0 2.371E+00 106.0 7.1486E-02 1.5613E+00 164.0 2.371E+00 106.0 7.1486E-02 1.4394E+00 166.0 2.3295E+00 110.0 5.643E-02 1.476E+00 172.0 2.3295E+00 112.0 5.643E-02 1.3772E+00 172.0 2.2807E+00 114.0 5.674E-02 1.3772E+00 172.0 2.2807E+00 116.0 5.673E-02 1.3166E+00 174.0 2.2807E+00 116.0 5.673E-02 1.3166E+00 174.0 2.2807E+00 116.0 5.673E-02 1.3473E+00 174.0 2.2101E+00 16.0 7.1089E-02 1.3893E+00		2.1782E+00	2.4913E+00	92.0	2.4348E-01	1.6957E+00	152.0	5.54228-01	9.2304E-01
2.4616E+00 96.0 1.7557E-01 1.6304E+00 156.0 2.4454E+00 98.0 1.4714E-01 1.5978E+00 158.0 2.483E+00 100.0 1.4714E-01 1.5554E+00 160.0 2.4102E+00 100.0 1.0164E-01 1.5332E+00 162.0 2.3913E+00 104.0 8.4639E-02 1.4697E+00 162.0 2.3916E+00 106.0 7.1486E-02 1.4697E+00 164.0 2.350E+00 100.0 5.643E-02 1.4384E+00 170.0 2.365E+00 110.0 5.643E-02 1.4776E+00 170.0 2.360E+00 112.0 5.4861E-02 1.372E+00 172.0 2.260E+00 116.0 6.216E-02 1.3180E+00 174.0 2.260E+00 118.0 7.1089E-02 1.3180E+00 176.0 2.2101E+00 120.0 8.3298E-02 1.2612E+00 180.0		2.1242E+00	2.4769E+00	94.0	2.0771E-01	1.6630E+00	154.0	5.8741E-01	9.0983E-01
2.4454E+00 98.0 1.4714E-01 1.5578E+00 158.0 2.4252E+00 100.0 1.2248E-01 1.5532E+00 160.0 2.4102E+00 102.0 1.0164E-01 1.5532E+00 160.0 2.3913E+00 104.0 8.4639E-02 1.5013E+00 164.0 2.3710E+00 106.0 7.1486E-02 1.4976E+00 164.0 2.3295E+00 110.0 5.6643E-02 1.4076E+00 170.0 2.3295E+00 112.0 5.6643E-02 1.372E+00 170.0 2.2802E+00 114.0 5.6743E-02 1.3403E+00 174.0 2.2802E+00 116.0 6.2192E-02 1.3180E+00 176.0 2.2802E+00 118.0 7.1089E-02 1.2893E+00 178.0 2.2101E+00 120.0 8.3298E-02 1.2612E+00 180.0		2.0676E+00	2.4616E+00	0.96	1.7557E-01	1.6304E+00	156.0	6.1936E-01	8.9760E-01
2.4282£+00 100.0 1.2248E-01 1.5554£+00 160.0 2.4102£+00 102.0 1.0164E-01 1.5322£+00 162.0 2.3913E+00 106.0 1.0164E-01 1.5322£+00 164.0 2.3716E+00 106.0 7.1486E-02 1.4894E+00 166.0 2.37516E+00 108.0 6.2166E-02 1.4776E+00 170.0 2.3295E+00 110.0 5.6643E-02 1.4776E+00 170.0 2.3295E+00 112.0 5.4861E-02 1.4776E+00 172.0 2.2602E+00 116.0 5.6743E-02 1.3772E+00 174.0 2.2602E+00 116.0 6.2192E-02 1.3180E+00 176.0 2.2101E+00 12.00 8.3298E-02 1.2813E+00 178.0		2.0086E+00	2.4454E+00	0.86	1.4714E-01	1.5978E+00	158.0	6.4990E-01	8.8635E-01
2.4102E+00 102.0 1.0164E-01 1.5332E+00 162.0 2.3913E+00 104.0 8.4639E=02 1.5013E+00 164.0 2.3716E+00 106.0 7.1486E-02 1.4697E+00 166.0 2.3510E+00 108.0 6.2166E-02 1.4076E+00 168.0 2.3505E+00 110.0 5.6643E-02 1.4076E+00 170.0 2.3641E+00 114.0 5.4641E-02 1.372E+00 170.0 2.2602E+00 116.0 6.2192E-02 1.3180E+00 176.0 2.2101E+00 118.0 7.1089E-02 1.2833E+00 176.0 2.8101E+00 120.0 8.3298E-02 1.2612E+00 180.0		1.9474E+00	2.4282E+00	100.0	1.2248E-01	1.5654E+00	160.0	6.7850E-01	8.7610E-01
2.3913E+00 104.0 8.4639E-02 1.5613E+00 164.0 166.0 2.3716E+00 106.0 7.1486E-02 1.4697E+00 166.0 2.3716E+00 108.0 6.216E-02 1.4384E+00 168.0 2.3295E+00 110.0 5.6643E-02 1.4076E+00 170.0 2.3295E+00 112.0 5.4861E-02 1.3712E+00 170.0 2.2841E+00 114.0 5.6643E-02 1.3712E+00 170.0 2.2602E+00 116.0 6.2192E-02 1.3180E+00 176.0 2.2602E+00 116.0 6.2192E-02 1.3180E+00 176.0 2.8101E+00 120.0 8.3298E-02 1.2813E+00 180.0 180.0		1.8842E+00	2.4102E+00	102.0	1.0164E-01	1.5332E+00	162.0	7.0522E-01	8.6682E-01
2.3716E+00 106.0 7.1486E=02 1.4697E+00 166.0 2.3516E+00 108.0 6.216E=02 1.4367E+00 168.0 2.3516E+00 109.0 6.216E=02 1.4367E+00 170.0 2.3295E+00 110.0 5.6643E=02 1.4776E+00 170.0 2.3641E+00 114.0 5.6743E=02 1.3772E+00 172.0 2.2602E+00 116.0 6.5743E=02 1.3473E+00 174.0 2.2602E+00 116.0 6.2192E=02 1.3180E+00 176.0 2.3101E+00 120.0 8.3298E=02 1.2612E+00 180.0		1.8191E+00	2.3913E+00	104.0	8.4639E-02	1.5013E+00	164.0	7.2974E-01	8.5853E-01
2.3510E+00 108.0 6.2166E-02 1.4384E+00 168.0 2.3520E+00 110.0 5.6643E-02 1.4076E+00 170.0 2.3072E+00 110.0 5.6643E-02 1.3772E+00 170.0 2.2641E+00 114.0 5.6743E-02 1.3772E+00 174.0 2.2655E+00 116.0 6.2192E-02 1.3180E+00 176.0 2.2655E+00 118.0 7.1089E-02 1.2833E+00 178.0 2.8101E+00 120.0 8.3298E-02 1.2612E+00 180.0		1.7524E+00	2.3716E+00	106.0	7.1486E-02	1.4697E+00	166.0	7.5186E-01	8.5122E-01
2.3295E+00 110.0 5.6643E-02 1.4476E+00 170.0 2.3672E+00 112.0 5.4861E-02 1.3772E+00 172.0 2.2841E+00 114.0 5.4861E-02 1.3473E+00 174.0 2.2602E+00 116.0 6.2192E-02 1.3180E+00 176.0 2.2355E+00 118.0 7.1089E-02 1.2893E+00 178.0 2.3101E+00 120.0 8.3298E-02 1.2612E+00 180.0		1.6843E+00	2.3510E+00	108.0	6.2166E-02	1.4384E+00	168.0	7.7141E-01	8.4490E-01
2.3072E+00 112.0 5.4861E-02 1.3772E+00 172.0 2.2647E+00 114.0 5.6743E-02 1.3473E+00 174.0 2.2662E+00 116.0 6.57492E-02 1.3180E+00 176.0 2.255E+00 118.0 7.1089E-02 1.2893E+00 178.0 2.8191E+00 12.060		1.6150E+00	2.3295E+00	110.0	5.6643E-02	1.4076E+00	170.0	7.8823E-01	8.3955E-01
2.2841E+00 114.0 5.6743E-02 1.3473E+00 174.0 2.26602E+00 116.0 6.2192E-02 1.3180E+00 176.0 2.2355E+00 118.0 7.1089E-02 1.2893E+00 178.0 2.2101E+00 120.0 8.3298E-02 1.2612E+00 180.0 2.8040E+00 120.0 8.3298E-02 1.2612E+00 180.0		1.5446E+00	2.3072E+00	112.0	5.4861E-02	1.3772E+00	172.0	8.021BE-01	8.3517E-01
2.2602E+00 116.0 6.2192E-02 1.3180E+00 176.0 2.2355E+00 118.0 7.1089E-02 1.2893E+00 178.0 2.2101E+00 120.0 8.3298E-02 1.2612E+00 180.0 2.8840E+00		1.4735E+00	2.2841E+00	114.0	5.6743E-02	1.3473E+00	174.0	8.1314E-01	8.3177E-01
2.2355E+00 118.0 7.1089E-02 1.2893E+00 178.0 2.2101E+00 120.0 8.3298E-02 1.2612E+00 180.0 2.1840E+00		1.4019E+00	2.2602E+00	116.0	6.2192E-02	1.3180E+00	176.0	8.2104E-01	8.2934E-01
2.2101E+00 120.0 8.3298E-02 1.2612E+00 180.0 2.1840E+00		1.3299E+00	2.2355E+00	118.0	7.1089E-02	1.2893E+00	178.0	8.2581E-01	8.2789E-01
		1.2579E+00	2.2101E+00	120.0	8.3298E-02	1.2612E+00	180.0	8.2740E-01	8.2740E-01
		1.1860E+00	2.1840E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

NORMALIZED CROSS SECTION	H-PLANE		2.2365€+00	2.2007E+00	2.1657E+00	2.1316E+00	2.0986E+00	2.0667E+00	2.0358E+00	2.0062E+00	1.9778E+00	1.9506E+00	1.9247E+00	1.9002E+00	1.87695+00	1.8550E+00	1.8345E+00	1.8153E+00	1.7975E+00	1.7810E+00	1.7659E+00	1.7522E+00	1.7398E+00	1.7288E+00	1.7190E+00	1.7106E+00	1.7035E+00	1.6977E+00	1.6932E+00	1.6900E+00		1.6875E+00	
NORMAL 12ED	E-PLANE		3.5904E-01	3.9127E-01	4.2843E-01	4.7020E-01	5.1625E-01	5.6619E-01	6.1962E-01	6.76116-01	7.35185-01	7.96355-01	8.5913E-01	9.2239E-01	9.87406-01	1.0518E+00	1.1157E+00	1.1785E+00	1.2397E+00	1.2988E+00	1.3553E+00	1.4087E+00	1.4585E+00	1.5042E+00	1.5456E+00	1.58236+00	1.6138E+00	1.6400E+00	1.6606E+00	1.6755E+00	1.6845E+00	1.6875E+00	
	ANGLE	1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE		3.3132E+00	3.2877E+00	3.2611E+00	3.2334E+00	3.2046E+00	3.1746E+00	3.1437E+00	3.1117E+00	3.0787E+00	3.0448E+00	3.0099E+00	2.9743E+00	2.9378E+00	2.9006E+00	2.8628E+00	2.8244E+00	2.7854E+00	2.7461E+00	2.7064E+00	2.6664E+00	2.6263E+00	2.5861E+00	2.5460E+00	2.5059E+00	2.4661E+00	2.4266E+00	2.3874E+00	2.3488E+00	2.3107E+00	2.2732E+00	
NORMALIZED	E-PLANE		1.7790E+00	1.6842E+00	1.5898E+00	1.4963E+00	1.4040E+00	1.3132E+00	1.2242E+00	1.1374E+00	1.0531E+00	9.7162E-01	8.9331E-01	8.1847E-01	7.4743E-01	6.8047E-01	6.1788E-01	5.5994E-01	5.0689E-01	4.5898E-01	4.1640E-01	3.7935E-01	3.47986-01	3.2242E-01	3.0278E-01	2.8912E-01	2.8147E-01	2.7983E-01	2.8416E-01	2.9438E-01	3.1038E-01	3.3200E-01	
	ANGLE	1 1 1 1 1	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION	H-PLANE		3.6376E+00	3.6373E+00	3.6365E+00	3.6353E+00	3.6336E+00	3.6313E+00	3.6285E+00	3.6251E+00	3.6212E+00	3.6167E+00	3.6116E+00	3.6058E+00	3.5994E+00	3.5923E+00	3.5845E+00	3.5760E+00	3.5666E+00	3.555E+00	3.5455E+00	3.5337E+00	3.520 JE + 00	3.5072E+00	3.492GE+00	3.4769E+00	3.4602E+00	3.4425E+00	3.4237E+00	3.4039E+00	3.3829E+00	3.3608E+00	3.3376F+00
NORMAL 1 ZED C		*	3.6376E+00	3.6352E+00	3.6283E+00	3.6167E+00	3.60055400	3.5798E+00	3.5545E+00	3.5247E+00	3.4906E+00	3.4520F +00	3.4093E+00	3.3623E+00	3.3113E+00	3.2563E+00	3.1974E+00	3,1348E+00	3.0687E+00	2.9992E+00	2.9264E+00	2.8505E+00	2.7717E+00	2.6902E+00	2.6063E+00	2.5201E+00	2.4318E+00	2.3418E+00	2.2502E+00	2.15746+00	2.0638E+00	1.9690E+00	1 8741F+00
	ANGLE		0.0	5.0	0.4	0.9	0.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

でいいいいいい でいいいいいいい

KA* 1.2

NORMALIZED CROSS SECTION F-DIANF H-DIANE	2.6966E+00	2.6686E+00	2.6412E+00	2.6145E+00	2.5886E+00	2.5636E+00	2.5395E+00	2.5165E+00	2.4946E+00	2.4738E+00	2.4542E+00	2.4358E+00	2.4185E+00	2.4025E+00	2.3877E+00	2.3741E+00	2.3617E+00	2.3504E+00	2.3402E+00	2.3311E+00	2.3230E+00	2.3159E+00	2.3097E+00	2.3045E+00	2.3001E+00	2.2966E+00	2.2939E+00	2.2920E+00	2.2908E+00	2.2905E+00	
NORMALIZED C	7.89976-01	8.15736-01	8.4765E-01	8.855E-01	9.2917E-01	9.7821E-01	1.03236+00	1.0910E+00	1.1538E+00	1.2203E+00	1.2897E+00	1.3616E+00	1.4352E+00	1.50996+00	1.5849E+00	1.6595E+00	1.7329E+00	1.8046E+00	1.8736E+00	1.9394E+00	2.0011E+00	2.0583E+00	2.1103E+00	2.1566E+00	2.1965E+00	2.2299E+00	2.2562E+00	2.2752E+00	2.2866E+00	2.2905E+00	
S CNA	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	3.2680E+00	3.2670E+00	3.2647E+00	3.2612€+00	3.2562E+00	3.2498E+00	3.2419E+00	3.2326E+00	3.2218E+00	3.2094E+00	3.1956E+00	3.1802E+00	3.1634E+00	3.1452E+00	3.1255E+00	3.1046E+00	3.0823E+00	3.0589E+00	3.0344E+00	3.0090E+00	2.9826E+00	2.9554E+00	2.9276E+00	2.8992E+00	2.8705E+00	2.8414E+00	2.8122E+00	2.7830E+00	2.7539E+00	2.7251E+00	
NORMALIZED C	2.0869E+00	2.0227E+00	1.9572E+00	1.8908E+00	1.8235E+00	1.7557E+00	1.6875E+00	1.6193E+00	1.5512E+00	1.4836E+00	1.4168E+00	1.3512E+00	1.2871E+00	1.2248E+00	1.1647E+00	1.1072E+00	1.0528E+00	1.0016E+00	9.5424E-01	9.10966-01	8.7214E-01	8.38135-01	8.0923E-01	7.8575E-01	7.6794E-01	7.5604E-01	7.5022E-01	7.5064E-01	7.5738E-01	7.70496-01	
T CN	62.0	64.0	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	1.8.0	120.0	
D CROSS SECTION	3.1046E+00	3.1050E+00	3.1061E+00	3.1080E+00	3.1105E+00	3.1138E+00	3.1177E+00	3.12225+00	3.1274E+00	3.1332E+00	3.1394E+00	3.1451E+00	3.1533£+00	3.1608E+00	3.1686E+00	3.1766E+00	3.1848E+00	3.1930E+00	3.2012E+00	3.2094E+00	3.21736+00	3.2250E+00	3.2324E+00	3.2393E+00	3.2457E+00	3.2514E+00	3.2565E+00	3.2607E+00	3.2641E+00	3.2665E+00	3.2678E+00
NORMAL 1 ZED C	3.10465+00	3.10365+00	3.1005E+00	3.0952E+00	3.08796+00	3.0784E+00	3.0669E+00		3.0375E+00	3.0196E+00	2.9995E+00	2.9773E+00	2.9530E+00	2.9265E+00	2.89785+00	2.8670E+00	2.8339E+00	2.7987E+00	2.7613E+00	2.7217E+00	2.6800E+00	2.6361E+00	2.5900E+00	2.5419E+00	2.4916E+00	2.4393E+00	2.3851E+00	2.3289E+00	2.2709E+00	2.21116+00	2.1498E+00
0.004	0.0	7.0	6.0	0.9	0.6	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 1.4

CROSS SECTION H-PLANE	2.7551E+00	2.744BE+00	2.7344E+00	2.7241E+00	2.7141E+00	2.7045E+00	2.6955E+00	2.6870E+00	2.6792E+00	.6722E+00	2.6659E+00	2.6606E+00	2.6560E+00	2.6523E+00	2.6494E+00	2.6473E+00	.6458E+00	.6450E+00	.6447E+00	2.6449E+00	.6454E+00	2.6463E+00	1.6472E+00	2.6483E+00	2.6494E+00	2.6503E+00	2.6512E+00	2.6518E+00	2.6522E+00	2.6523E+00	
NORMALIZED CROS		1.3161E+00 2		1.3281E+00 2	1.3451E+00 2		_		1.4860E+00 2	1.5380E+00 2	1.5958E+00 2	1.6588E+00 2		1.7972E+00 2			2.0228E+00 2	2.0990E+00 2			••	•••	•	-				_	2.6478E+00 2	2.6523E+00 2	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	2.4451E+00	2.4778E+00	2.5097E+00	2.5406E+00	2.5706E+00	2.5992E+00	2.6266E+00	2.6524E+00	2.6767E+00	2.6993E+00	2.7200E+00	2.7389E+00	2.7558E+00	2.7708E+00	2.7837E+00	2.7945E+00	2.8033E+00	2.8101E+00	2.8149E+00	2.8178E+00	2.8188E+00	2.8181E+00	2.8157E+00	2.8118E+00	2.8066E+00	2.8001E+00	2.7925E+00	2.7841E+00	2.7749E+00	2.7652E+00	
NORMALIZED C E-PLANE	2.2221E+00	2.2265E+00	2.2277E+00	2.2253E+00	2.2193E+00	2.2094E+00	2.1957E+00	2.1780E+00	2.1563E+00	2.1306E+00	2.1012E+00	2.0681E+00	2.0315E+00	1.9918E+00	1.9492E+00	1.9042E+00	1.8571E+00	1.8085E+00	1,7590E+00	1.7091E+00	1.6594E+00	1.6106E+00	1.5634E+00	1.5184E+00	1.4763E+00	1.4379E+00	1.4036E+00	1.3743E+00	1.3503E+00	1.33246+00	
ANGLE	62.0	64.0	0.99	69.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	95.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
D CROSS SECTION H-PLANE	1 7377F+00	1.73£7£+00	1.7414E+00	1.7460E+00	1.7524E+00	1.7606E+00	1.7706E+00	1.7824E+00	1.7959E+00	1.81116+00	1.8281E+00	1.8466E+00	1.8667E+00	1.8834E+00	1.9116E+00	1.9362E+00	1.9621E+00	1.9893E+00	2.0177E+00	2.0472E+00	2.07/7E+00	2.1091E+00	2.1413E+00	2.1742E+00	2.2076E+00	2.2414E+00	2.2755E+00	2.3098E+00	2.3440E+00	2.3781E+00	2.4118E+00
NORMALIZED C E-PLANE	1.73775+00	1.7386E+00	1.74115+00	1.7453E+00	1.7512E+00	1.7587E+00	1.7678E+00	1.7786E+00	1.7908E+00	1.8046E+00	1.8198E+00	1.8364E+00	1.8543E+00	1.87345+00	1.8936E+00	1.9147E+00	1.9367E+00	1.95936+00	1.9824E+00	2.0058E+00	2.0293E+00	2.05276+00	2.0757E+00	2.0981E+00	2.1196E+00	2.1400E+00	2.1589E+00	2.1761E+00	2.1913E+00	2.2042E+00	2.2146E+00
ANGLE	0	0.0	4	9	0	0.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 1.6

	۵	CROSS SECTION		NORMALIZED C	NORMALIZED CROSS SECTION		NORMALIZED C	NORMALIZED CROSS SECTION
NGLE	E-PLANE	HIPLANE	ANGLE	FIFTANE	HITTANE	11000	E-FLANE	
0.0	5.7270E-01	5.72705-01	62.0	2.2761E+00	1.5024E+00	122.0	1.9031E+00	2.8266E+00
0.0	5.744E-01	5.7358E-01	64.0	2.3577E+00	1.5613E+00	124.0	1.85566+00	2.8419£+00
0,	5.79695-01	5.7623E-01	99	2.4355E+00	1.6210E+00	126.0	1.8165E+00	2.8562E+00
9	5.8847E-01	5.8066E-01	68.0	2.5087E+00	1.6813E+00	128.0	1.7868E+00	2.869BE+00
8	6.0081E-01	5.8687E-01	70.0	2.5767E+00	1.7420E+00	130.0	1.7672E+00	2.8828E+00
10.0	6.1678E-01	5.94°0E-01	72.0	2.6386E+00	1.8028E+00	132.0	1.7583E+00	2.8954E+00
12.0	8.3643E-01	6.0475,E-01	74.0	2.6938E+00	1.8634E+00	134.0	1.7606E+00	2.9078E+00
14.0	6.59856-01	6.1646E-01	16.0	2.7418E+00	1.9238E+00	136.0	1.7741E+00	2.9202E+00
16.0	6.8710E-01	6.3005E-01	78.0	2.7816E+00	1.9835E+00	138.0	1.7990E+00	2.9327E+00
18.0	7.1828E-01	6.4556E-01	80.0	2.8136E+00	2.0424E+00	140.0	1.8349E+00	2.9454E+00
20.0	7.5346E-01	6.6302E-01	82.0	2.8365E+00	2.1003E+00	142.0	1.88158+00	2.9583E+00
22.0	7.9270E-01	6.8246E-01	84.0	2.8505E+00	2.1569E+00	144.0	1.9380E+00	2.9716E+00
24.0	8.36085-01	7.03935-01	86.0	2.8552E+00	2.2120E+00	146.0	2.00376+00	2.9852E+00
26.0	8.8362E-01	7.2745£-01	88.0	2.8507E+00	2.2653E+00	148.0	2.0775E+00	2.9990E+00
28.0	9.3535E-01	7.5306E-01	0.06	2.8370E+00	2.3168E+00	150.0	2.1582E+00	3.0131E+00
30.0	9.9125E-01	7.8077E-01	92.0	2.8142E+00	2.3662E+00	152.0	2.2444E+00	3.0274E+00
32.0	1.0513E+00	8.1063E-01	94.0	2.7828E+00	2.4134E+00	154.0	2.3346E+00	3.0417E+00
34.0	1.11546+00	B.4264E-01	96.0	2.7432E+00	2.4583E+00	156.0	2.4274E+00	3.0559E+00
36.0	1.18346+00	8.7681E-01	0.86	2.6959E+00	2.5008E+00	158.0	2.5209E+00	3.0699E+00
38.0	1.2552E+00	9.13156-01	100.0	2.6418E+00	2.5408E+00	160.0	2.6136E+00	3.0834E+00
40.0	1.3305E+00	9.5165E-01	102.0	2.5817E+00	2.5782E+00	162.0	2.7036E+00	3.0965£+00
42.0	1.4090E+00	9.9228E-01	104.0	2.516GE+00	2.6131E+00	164.0	2.7895E+00	3.1087E+00
44.0	1.4905E+00	1.0350E+00	106.0	2.4475E+00	2.6455E+00	166.0	2.8695E+00	3.1201E+00
46.0	1.5746€+00	1.0798E+00	108.0	2.3756E+00	2.6755E+00	168.0	2.9423E+00	3.1303E+00
48.0	1.660BE+00	1.1266E+00	110.0	2.3022E+00	2.7031E+00	170.0	3.0063E+00	3.1392E+00
50.0	1.7486E+00	1,1754E+00	112.0	2.2285E+00	2.7284E+00	172.0	3.0605E+00	3.1468E+00
52.0	1.8375E+00	1.2260E+00	114.0	2.1559E+00	2.7516E+00	174.0	3.1037E+00	3.1528E+00
54.0	1.9269E+00	1.2783E+00	116.0	2.0858E+00	2.7728E+00	176.0	3.1352E+00	3.1572E+00
56.0	2.0162E+00	1.3323E+00	118.0	2.0194E+00	2.7923E+00	178.0	3.1543E+00	3.1598E+00
58.0	2.1046E+00	1.3877E+00	120.0	1.9581E+00	2.8101E+00	180.0	3.1607E+00	3.1607E+00
0.09	2.1915E+00	1.4445E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

			BISTATIC SC	ATTERING FROM	BISTATIC SCATTERING FROM CONDUCTING SPHERE			
				KA* 1.8				
GLE	NORMAL I ZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED C E-PLANE	WORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED (E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
13				00,30,40	10130103 0		0 45575400	001066100
9 6	3.2901E-01	3.2901E-01	0.70	2 18345100	0.02195-01	124.0	2 3757E+00	3.0120E+00
. 4	3.29437-01 3.2073E-01	3 20115-01	99.0	2.3155F+00	9.20/JC 01	126.0	2.3051E+00	3.1139E+00
0	3.3300E-01	3.2926E-01	68.0	2.4460E+00	1.0476E+00	128.0	2.24576+00	3.1624E+00
0.6	3.3641E-01	3.2954E-01	70.0	2.5736E+00	1.1157E+00	130.0	2.1993E+00	3.2098E+00
0	3.4118E-01	3.2999E-01	72.0	2.6970E+00	1.1865E+00	132.0	2.1671E+00	3.2563E+00
2.0	3.4759E-01	3.3071E-01	74.0	2.8148E+00	1.2599E+00	134.0	2.1503E+00	3.3021E+00
0.	3.55996-01	3.3178E-01	16.0	2.9258E+00	1.3355E+00	136.0	2.1498E+00	3.3474E+00
0.9	3.66756-01	3.3331E-01	78.0	3.0287E+00	1.4132E+00	138.0	2.16G0E+00	3.3922E+00
0.8	3.8028E-01	3.3542E-01	80.0	3.1222E+00	1.4926E+00	140.0	2.1992E+00	3.4368E+00
0.0	3.9703E-01	3.3825E-01	82.0	3.2053E+00	1.5734E+00	142.0	2.2490E+00	3.4811E+00
0.	4.1748E-01	3.4195E-01	84.0	3.2768E+00	1.6552E+00	144.0	2.3149E+00	3.5252E+00
0.	4.4209E-01	3.4667E-01	86.0	3.3360E+00	1.7377E+00	146.0	2.3959E+00	3.5691E+00
0.9	4.7134E-01	3.5259E-01	88.0	3.3820E+00	1.8206E+00	148.0	2.4907E+00	3.61266+00
0.8	5.05695-01	3.5988E-01	90.06	3.4143E+00	1.9033E+00	150.0	2.5977E+00	3.6557E+00
0.0	5.45596-01	3.6873E-01	92.0	3.4326E+00	1.98576+00	152.0	2.7149E+00	3.6982E+00
5.0	5.9145E-01	3.7932E-01	94.0	3.4367E+00	2.0673E+00	154.0	2.8402E+00	3.7397E+00
0.	6.4363E-01	3.9185E-01	96.0	3.4267E+00	2.1479E+00	156.0	2.9711E+00	3.7801E+00
0.9	7.0244E-01	4.0651E-01	98.0	3.4028E+00	2.2272E+00	158.0	3.1051E+00	3.8191E+00
0.8	7.6811E-01	4.2348E-01	100.0	3.3657E+00	2.3048E+00	160.0	3.23955+00	3.8562E+00
0.0	8.4081E-01	4.4295E-01	102.0	3.3160E+00	2.3805E+00	162.0	3.3716E+00	3.8913E+00
2.0	9.2062E-01	4.6510E-01	104.0	3.2549E+00	2.4542E+00	164.0	3.4985E+00	3.9239E+00
0.	1.0075E+00	4.9009E-01	106.0	3.1836E+00	2.5256E+00	166.0	3.6178E+00	3.9536E+00
6.0	1.1014E+00	5.1808E-01	108.0	3.1036E+00	2.5948E+00	168.0	3.7268E+00	3.9802E+00
0.8	1.2019E+00	5.4920E-01	110.0	3.0165E+00	2.6615E+00	170.0	3.8234E+00	4.0033E+00
0.0	1.3089E+00	5.8358E-01	112.0	2.9241E+00	2.7257E+00	172.0	3.9054E+00	4.0226E+00
5.0	1.421BE+00	6.2133E-01	114.0	2.8285E+00	2.7876E+00	174.0	3.9710E+00	4.0379E+00
0.4	1.5400E+00	6.6250E-01	116.0	2.7317E+00	2.8471E+00	176.0	4.0190E+00	4.0490E+00
6.0	1.6629E+00	7.0717E-01	118.0	2.6358E+00	2.9043E+00	178.0	4.0432E+00	4.05576+00
0.0	1.7897E+00	7.5535E-01	120.0	2.5431E+00	2.9594E+00	180.0	4.0579E+00	4.0579E+00
0.0	1.9194E+00	8.0704E-01						

IN DEGREES FROM BACKSCATTER DIRECTION

poposos issassos possos passas dessas dessas. Obsesas dessas inservas dessas dessas dessas passas passas

BISTATIC SCATTERING FROM CONDUCTING SPHERE

Section (Section Consists) Property of the Consists of the Con

KA= 2.0

NORMYLIZED CROSS SECTION E-PLANE H-PLANE				2.7675E+00 3.3025E+00	2.6994E+00 3.3919E+00	2.64'0E+00 3.4809E+00		2.5974E+00 3.6578E+00	2.59M-E+00 3.7461E+00	2.61anE+00 3.8344E+00	e	2.7257E+00 4.0113E+00	2.8102E+00 4.0998E+00	2.9149E+00 4.1880E+00	3.03isi£+00 4.2757E+00	3.1700E+00 4.3626E+00	3.33:12E+00 4.4483E+00	3.5014E+00 4.5323E+00	3.6774E+00 4.6139E+00	3.8585E+00 4.6926E+00	4.0415E+00 4.7677E+00	4.2221E+00 4.8385E+00	4.3967E+00 4.9042E+00	•	4.7125E+00 5.0179E+00	4.8468E+00 5.0644E+00	4.9611E+00 5.1034E+00	5.0528E+00 5.1342E+00	_	5.1608E+00 5.1700E+00	5.1746E+00 5.1746E+00	
ANGLE	:	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		7.1280E-01	7.3963E-01	7.7185E-01	8.0955E-01	8.5278E-01	9.0155E-01	9.5582E-01	1.0155E+00	1.0804E+00	1.1503E+00	1.2249E+00	1.3041E+00	1.3873E+00	1.4742E+00	1.5645E+00	1.6576E+00	1.7530E+00	1.8505E+00	1.9493E+00	2.0492E+00	2.1497E+00	2.2503E+00	2.3508E+00	2.4507E+00	2.5499E+00	2.6481E+00	2.7452E+00	2.8410E+00	2.9356E+00	3.0289E+00	
NORMALIZED C E-PLANE		1.4280E+00	1.5564E+00	1.6915E+00	1.8321E+00	1.9769E+00	2.1243E+00	2.2727E+00	2.4205E+00	2.5658E+00	2.7070E+00	2.8421E+00	2.9695E+00	3.0874E+00	3,1943E+00	3.2888E+00	3.3695E+00	3.4354E+00	3.4857E+00	3.5199E+00	3.5378E+00	3.5393E+00	3.5250E+00	3.4956E+00	3.4523£+00	3.3964E+00	3.3298E+00	3.2544E+00	3.1728E+00	3.0873E+00	3.0007E+00	
ANGLE	:	62.0	64.0	0.99	0.89	0.07	72.0	74.0	76.0	78.0	90.0	82.0	84.0	86.0	68.0	90.0	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
FD CROSS SECTION	1 - 1 - 1 - 1 - 1	1.0081E+00	1.0070E+00	1.0037E+00	9.9823E-01	9.9072E-01	9.81116-01	9.69.68-01	9.56195-01	9.4112E-01	9.24525-01	9.0656E-01	8.8715E-01	8.6741E-01	8.4667E-01	8.25495-01	8.0416E-01	7.8296E-01	7.6272E-01	7.4226E-01	7.2341E-01	7.0603E-01	6.9047E-01	6.7710E-01	6.6623E-01	6.58386-01	6.5375E-01	6.5274E-01	6.5568E-01	6.6238E-01	6.7463E-01	01105-01
NORMALIZED C		1.0081E+00	1.0057E+00	9.9841E-01	9.8646E-01	9.70105-01	9.4971:-01			8.69618-01	8.38771 -01	8.0713E-01		7.4495f01	7.16255-01	6.9042E-01	6.6842E-01	6.5121E-01	6.39738-01	6.348 JF - 01		6.4841E-01	6.6826E-01	6.9767E-01	7.37138-01	7.8701E-01	8.4754E-01	9,18816-01	1.0007E+00	1.09316+00	1.1955E+00	********
ANGLE	1	0.0	7.0	0.4	0.9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA= 2.2

JSS SECTION H-PLANE		3.0096E+00	3.1326E+00	3.2566E+00	3.3817E+00	3.5080E+00	3.6357E+00	3.7649E+00	3.8957E+00	4.0283E+00	4.1625E+00	4.2983E+00	4.4353E+00	4.5733E+00	4.7116E+00	4.8498E+00	4.9869E+00	5.1221E+00	5.2544E+00	5.3826E+00	5.5055E+00	5.6218E+00	5.7303E+00	5.8296E+00	5.9186E+00	5.99616+00	6.0610E+00	6.11256+00	6.1498E+00	6.1724E+00	6.18006+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	********	3.3320E+00	3.2818E+00	3.2327E+00	3.1881E+00	3.1514E+00	3.1259E+00	3.1149E+00	3.1209E+00	3,14GE+00	3.1937E+00	3.2635E+00	3.35/37E+00	3.4733E+00	3.6124E+00	3.7725E+00	3.9513E+00	4.1450E+00	4.3531E+00	4.5684E+00	4.7875E+00	5.0057E+00	5.2181E+00	5.4197E+00	5.6057E+00	5.7718E+00	5.9137E+00	6.0279E+00	6.1117E+00	6.1628E+00	6.1800E+00	
ANGLE	1 1 1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE		8.9066E-01	B.7644E-01	8.6766E-01	8.6474E-01	8.6806E-01	8.7794E-01	8.9467E-01	9.1845E-01	9.4945E-01	9.8775E-01	1.0334E+00	1.0862E+00	1.1462E+00	1.2130E+00	1.2865E+00	1.3662E+00	1.4519E+00	1.5429E+00	1.6389E+00	1.7394E+00	1.8438E+00	1.9516E+00	2.0624E+00	2.1757E+00	2.2909E+00	2.4079E+00	2.5263E+00	2.6457E+00	2.7662E+00	2.8875£+00	
NURMALIZED CROSS SECTION E-PLANE H-PLANE	1	7.0069E-01	7.7584E-01	8.6421E-01	9.6536E-01	1.0786E+00	1.2031E+00	1.3378E+00	1.4812E+00	1.6321E+00	1.7886E+00	1.9489E+00	2.1110E+00	2.2730E+00	2.4324E+00	2.5874E+00	2.7355E+00	2.8748E+00	3.0034E+00	3.1193E+00	3.2211E+00	3.3076E+00	3.3777E+00	3.4310E+00	3.4674E+00	3.4872E+00	3,4911E+00	3.4804E+00	3.4568E+00	3.4225E+00	3.3800E+00	
ANGLE		62.0	64.0	0.99	0.89	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION E H-PLANE		1.7863E+00	1.7648E+00	1.7804E+00	1.7730E+00	1.7628E+00	1.7497E100	1.7337E+00	1.7150E+00	1.6935E+00	1.6694E+00	1.6428E+00	1.6137E+00	1.5822E+00	1.5487E+00	1.5131E+00	1.4757E+00	1.4357E+00	1.3964E+00	1.3550E+00	1.3129E+00	1,2703E+00	1.2276E+00	1.1852E+00	1.1435E+00	1,1029£+00	1.0640E+00	1.0271E+00	9.9270E-01	9.61385-01	9.3361E-01	9.0987E-01
NORMALIZED C F-PLANE		1.7863E+00	1.7821E+00	1.7695E+00		1.7201E+00	1.6837E-00	1.6402E+00	1.5901E+00				1.33625+00	1 2634E+00		1.1130E+00	1.0374E+00	9.6309E-01	8.9106E-01	8.2244E-01	7.5836E-01	6.9991E-01	6.4819E-01	6.0426E-01	5.6914E-01	5.4378E-01	5.2907E-01	5.2579E-01	5.3465E-01	5.5621E-01	5.9090E-01	6.39035-01
ANGLE		0.0	2.0	0.4	0.9	0.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 2.4

SECTION	H-PLANE		2.7526E+00	2.8986E+00	3.0480E+00	3.2011E+00	3.3581E+00	51895+00	3.6839E+00	3.8530E+00	.0265E+00	1.2041€+00	.3858E+00	4.5711E+00	4.7596E+00	4.9503E+00	5.1425E+00	5.3349E+00	5.5260E+00	5.7144E+00	5.8981E+00	6.0753E+00	6.2440E+00	6.4021E+00	6.5475E+00	6.6783E+00	6.7925E+00	6.8885E+00	6.9647E+00	7.0201E+00	.0537E+00	7.06506+00	
D CROS			3.75596+00 2	3.7515E+00 2	3.7383E+00 3	3.7200E+00 3			3.6771€+00 3		3.7012E+00 4	3.7407E+00 4	3.8027E+00 4		4.0017E+00 4	4.1404E+00 4	4.3048E+00 5		4.7027E+00 5	4.9300E+00 5	5.1705E+00 5	5.4191E+00 6		5.9169E+00 6	6.1537E+00 6	6.3742E+00 6	6.5724E+00 6	6.7428E+00 6	_	6.9821E+00 7	•-	7.0650E+00 7.	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ADSS SECTION	H-PLANE		1.1198E+00	1.0811E+00	1.0456E+00	1.0137E+00	9.8618E-01	9.6365E-01	9.4675E-01	9.36095-01	9.3221E-01	9.3562E-01	9.4675E-01	9.6598E-01	9.9358E-01	1.0297E+00	1.0745E+00	1.1279E+00	1.1899E+00	1.2602E+00	1.3386E+00	1.4246E+00	1.5180E+00	1.6182E+00	1.7248E+00	1.8372E+00	1.9550E+00	2.0777E+00	2.2048E+00	2.3362E+00	2.4714E+00	2.6102E+00	
NORMALIZED CROSS SECTION	E-PLANE		3.1838E-01	3.1873E-01	3.3339E-01	3.6331E-01	4.0926E-01	4.7182E-01	5.51296-01	6.4775E-01	7.6091E-01	8.9020E-01	1.0347E+00	1.1931E+00	1.3637E+00	1.5446E+00	1.7336E+00	1.9280E+00	2.1250E+00	2.3218E+00	2.5154E+00	2.7026E+00	2.8807E+00	3.0468E+00	3.1985E+00	3.3337E+00	3.4508E+00	3.5486E+00	3.6268E+00	3.6854E+00	3.7254E+00	3.7481E+00	
	ANGLE		62.0	64.0	0.99	0.89	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE	1	1.9296E+00	1.9279£+00	1.9258E+00	1.9222E+00	1.9172E+00	1.9107E+00	1.9026E+00	1.8929£+00	1.8816E+00	1.8684E+00	1.8534E+00	1.8365E+00	1.8175E+00	1.7965E+00	1.7734E+00	1.7480E+00	1.7205E+00	1.6907E+00	1.6587E+00	1.6246E+00	1.5884E+00	1.5502E+00	1.5102E+00	1.4687E+00	1.4258E+00	1.3818E+00	1.3372E+00	1.2923E+00	1.2476E+00	1.2036E+00	1.1608E+00
NORMALIZED C	E-PLANE	151711111	1.9286E+00		1.9165E+00	1.90145+00	+	+	-	_		-	•	1.5805E+00	1.5184E+00	+	-	_	1.2353E+00	1,15816+00	1.0794E+00		9.2036E-01	-	7.6420E-01	6.8945E-01	6.1827E-01		4.9105E-01	4.37406-01	3.9203E-01	ī	3.3128E-01
	ANGLE		0.0	5.0	4 .0	0.9	o. 8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	0.04	42.0	0.44	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 2.6

NORMALIZED CROSS SECTION E-PLANE H-PLANE	2.4693E+00	2.6330E+00	2.8037E+00	2.9814E+00	3.1665E+00	3.3589E+00	3.55916+00	3.7670E+00	3.9828E+00	4.2066E+00	4.4379E+00	4.6765E+00	4.9216E+00	5.1722E+00	5.4269E+00	5.6841E+00	5.9418E+00	6.1976E+00	6.44B9E+00	6.6928E+00	6.9264E+00	7.1464E+00	7.3498E+00	7.5334E+00	7.6944E+00	7.8300E+00	7.9381E+00	8.0167E+00	8.0644E+00	8.0804E+00	
NORMALIZED (4.0981E+00	4.1498E+00	4.1818E+00	4.1977E+00	4.20215+00	4.2002E+00	4.1976E+00	4.2003E+00	4.2112E+00	4.24:17E+00	4.2970E+00	4.3754E+00	4.4831E+00	4.6222E+00	4.7934E+00	4.9960£+00	5.2277E+00	5.4850E+00	5.7628E+00	6.0549£+00	6.35425+00	6.6527E+00	6.9422E+00	7.2143E+00	7.4607E+00	7.6740E+00	7.8474E+00	7.9754E+00	8.0539E+00	8.0804E+00	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE	1.2618E+00	1.2269E+00	1.1910E+00	1.1547E+00	1.1189E+00	1.0842E+00	1.0515E+00	1.0216E+00	9.9548E-01	9.7400E-01	9.5805E-01	9.4848E-01	9.4609E-01	9.5162E-01	9.6571E-01	9.8890E-01	1.0216E+00	1.0642E+00	1.1168E+00	1.1795E+00	1.2522E+00	1.3348E+00	1.4271E+00	1.5287E+00	1.6392E+00	1.7582E+00	1.8854E+00	2.0204E+00	2.1629E+00	2.3125E+00	
NORMALIZED CROSS SECTION F-PLANE H-PLANE	5.0888E-01	4.4055E-01	3,7986E-01	3.2922E-01	2.9109E-01	2.6788E-01	2.6189E-01	2,7521E-01	3,0965E-01	3.6667E-01	4.4727E-01	5.51956-01	6.8065E-01	8.3270E-01	1.0068E+00	1.2010E+00	1.4128E+00	1.6390E+00	1.8760E+00	2.1198E+00	2.3661E+00	2.6104E+00	2.8482E+00	3.0751E+00	3.2871E+00	3.4806E+00	3.6527E+00	3.8013E+00	3.9251E+00	4.0238E+00	
ANGLE	62.0	64.0	99	68.0	70.0	72.0	74.0	0.9/	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION F-DIANE H-DIANE	1.3895E+00	1.39018+00	1,39195+00	1.3948E+00	1.3988E+00	1.4039E+00	1.40gaE+00	1.4166E+00	1.4239E+00	1.4317E+00	1.4398E+00	1.4480E+00	1.45601.400	1.4635E+00	1.4704E+00	1.4764E+00	1.4811E+00	1.4843E+00	1.4857E+00	1.4850E+00	1.4821E+00	1.4766E+00	1.4683E+00	1.4572E+00	1.4430E+00	1.4257E+00	1.4054E+00	1.38196+00	1.3556E+00	1.3266E+00	1.2952E+00
NORMALIZED (1.3895E+00	1.3898E+00	1.3906E+00	1.3920E+00	1.3938E+00	1.3959E+00	1.3981E+00	1.4002E+00	1.4019E+00	1.4030E+00	1.4029E+00	1.4015E+00	1.3981E+00	1.3922E+00	1.3834E+00	1.3711E+00	1.3547E+00	1.3337E+00	1.3076E+00	1.2760E+00	1.2385E+00	1.1949E+00	1.1451E+00	1.0892E+00	1.0275E+00	9.6057E-01	8.8911E-01	8.1418E-01	7.3703E-01	6.5921E-01	5.8249E-01
# 10N	0.0	0.0	0.4	9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	0.44	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

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KA= 2.8

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 3.0

CROSS SECTION H-PLANE		1.9586E+00	2.1296E+00	2.3169E+00	2.5209E+00	2.7424E+00	2.9820E+00	3.2405E+00	3.5186E+00	3.8170E+00	4.1359E+00	4.4757E+00	4.8360E+00	5.21596+00	5.6140E+00	6.0283E+00	6.4556E+00	6.8924E+00	7.3342E+00	7.7756E+00	8.2107E+00	8.6332E+00	9.0363E+00	9.4129E+00	9.7563E+00	1.0060E+01	1.0317E+01	1.0524E+01	1.06748+01	1.0766E+01	1.0797E+01	
NORMALIZED CI E-PLANE		3.9302E+00	4.1397E+00	4.3185E+00	4.4672E+00	4.5884E+00	4.6804E+00	4.7671E+00	4.83H0E+00	4.9075E+00	4.9845E+00	5.0783E+00	5.1976E+00	5.35016+00	5.5423E+00	5.7784E+00	6.0608E+00	6.3889E+00	6.7597E+00	7.1674E+00	7.6037E+00	8.0580E+00	8.5130E+00	B.9700E+00	9.3998E+00	9.7930E+00	1.0136E+01	1.0417E+01	1.0625E+01	1.0753E+01	1.0797E+01	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE		1.2549E+00	1.2757E+00	1.2913E+00	1.3013E+00	1.3056E+00	1.3041E+00	1.2968E+00	1.2842E+00	1.2667E+00	1.2450E+00	1.2201E+00	1.1928E+00	1.1646E+00	1.1366E+00	1.1104E+00	1.0874E+00	1.0692E+00	1.0572E+00	1.0529E+00	1.0577E+00	1.0728E+00	1.0993E+00	1.1381E+00	1.1901E+00	1.2558E+00	1.3357E+00	1.4301E+00	1.5394E+00	1.6638E+00	1.8034E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.6801E+00	1.5970E+00	1,4969E+00	1,3821€+00	1,2551£+00	1.1195E+00	9.7929E-01	8.3886E-01	7.0316E-01	5.7734E-01	4.6667E-01	3.7635E-01	3.1129E-01	2.7597E-01	2.7424E-01	3.0908E-01	3.82518-01	4.9540E-01	6.4741E-01	8.3693E-01	1.0610E+00	1.3156E+00	1,5954E+00	1.8943£+00	2.2054E+00	2.5214E+00	2.8348E+00	3.1385E+00	3.4259E+00	3.6913E+00	
ANGLE	11111	62.0	64.0	0.99	68.0	70.0	72.0	74.0	16.0	78.0	63.0	82.0	84.0	86.0	88.0	90.0	95.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION H-PLANE	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	5.2077E-01	5.2127E-01	5.2279E-01	5.2538E-01	5.2912E-01	5.3410E-01	5.40.15E-01	5.4831E-01	5.5735E-01	5.6923F-01	5.8251E-01	5.9816E-01	6.1601E-01	6.3631E-01	6.5913E-01	6.8453E-01	7.1252E-01	7.4304E-01	7.7599E-01	8.1120E-01	8.4841E-01	8.8731E-01	9.2751E-01	9.6855E-01	1.0099E+00	1.0510E+00	1.0911E+00	1.1297E+00	1.1681E+00	1.1995E+00	1.2293E+00
NORMALIZED C E-PLAME		5.2077E-0	5.2253E-01	5.27906-01	5.3703E-01	5.5021E-01	5.67776-01	5.9013E-01	6.1772E-01	6.5097E-01	6.9026E-01	7.3588E-01	7.8800E-01	8.4661E-01	S.1153E-01	3.82348-01	1.0584E+00	1.1387E+00	1.2222E+00	1.3073E+00	1.3924E+00	1.4756E+00	1.55485 +00	1.6279E+00	1.6926E+00	1.7467E+00	1.7880E+00	1.8146E+00	1.8247E+00		1.7905E+00	1.744BE+00
ANGLE		0.0	5.0	4.0	9.0	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38. J	40.0	45.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 3.2

S SECTION H-PLANE		.7290E+00	.8834E+00	2.0580E+00	2.2537E+00	.4718E+00	2.7136E+00	2.9805E+00	3.2737E+00	3.5947E+00	3.9446E+00	4.3241E+00	.7335E+00	5.1723E+00	5.6391E+00	6.1318E+00	6.6469E+00	7.1798E+00	7.7249E+00	8.2753E+00	8.8229E+00	9.3592E+00	9.8747E+00	.0360E+01	.0804E+01	.1199E+01	.1536E+01	.1806E+01	.2004E+01	.2125E+01	.2165E+01	
CROSS H-	į	-	÷.	~	;;	7.	8	5.	ë		9.	4	4	ď.	5.	•	9.	7.	7.1		9	O	9.6	-	-	Ξ	-	Ξ	-	-	-	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		3.46395+00	3.767EE+00	4.0448E+00	4.2925E+00	4.5102E+00	4.6992E+00	4.8636E+00	5.0095E+00	5.1447E+00	5.2787E+00	5.4217E+00	5.5842E+00	5.7760E+00	6.0061E+00	6.2813£+00	6.6062E+00	6.98216+00	7.4074E+00	7.8769E+00	8.3821E+00	8.9114E+00	9.4505E+00	9.9834E+00	1.0493E+01	1.0961E+01	1.1371E+01	1.1708E+01	1.1959E+01	1.2113E+01	1.2165E+01	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.1594E+00	1.1961E+00	1.2303E+00	1.2610E+00	1.2873E+00	1.3086E+00	1.3243E+00	1.3339E+00	1.3372E+00	1.3341E+00	1.3249E+00	1.3101E+00	1.2903E+00	1.2667E+00	1.2403E+00	1.2126E+00	1.1851E+00	1.1596E+00	1.1378E+00	1.1215E+00	1.11245+00	1.1124E+00	1.1228E+00	1.1453E+00	1.1810E+00	1.2312E+00	1.2967E+00	1.3785E+00	1.4774E+00	1.5940E+00	
NORMALIZED C E-PLANE		1.8304E+00	1.8150E+00	1.7783E+00	1.7199E+00	1.6400E+00	1.5400E+00	1.4217E+00	1.2882E+00	1.1430E+00	9.9088E-01	8.36946-01	6.8702E-01	5.4732E-01	4.2423E-01	3.2408E-01	2.5293E-01	2.1622E-01	2.1860E-01	2.6361E-01	3.5349E-01	4.8900E-01	6.6930E-01	8.9193E-01	1.1528E+00	1.4464E+00	1.7658E+00	2.1032E+00	2.4502E+00	2.7981E+00	3.1386E+00	
ANGLE	1	62.0	64.0	0.99	0.89	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	0.98	88.0	90.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ZED CROSS SECTION NE H-PLANE		9.0935E-01	9.0835E-01	9.05385-01	9.0052E-01	8.9392E-01	8.8575E-01	8.7627E-01	8.6576E-01	8.5456E-01	8.4304E-01	8.3159E-01	8.2064E-01	8.1064E-01	8.0204E-01	7.9529E-01	7.9081E-01	7.8903E-01	7.9032E-01	7.9500E-01	8.0334E-01	8.1554E-01	8.3170E-01	8.5183E-01	8.75835-01	9.03516-01	9.3454E-01	9.6849E-01	1.0048E+00	1.0428E+00	1.0819€+00	1.1210E+00
NORMALIZED (E-PLANE		9.0935E-01	9.07335-01	9.0137E-01	B.9188E-01	7947E	8.6499E-01	B. 4946E-01	8.3408E-01	8.2012E-01	8.08945-01	8.0187E-01	8.0023E-01	8.0520E-01	8.17846-01	8.3898E-01	8.6920E-01	9.0880E-31		1.0157E+00	1.0819E+00		1.2342E+00	1.3171E+00	1.4017E+00	1.4857E+00	1.5664E+00	1.6412E+00	1.7072E+00	1.7616E+00	1.8018E+00	1.8255E+00
ANGLE	-	0.0	5.0	4	0.9	9.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 3.4

S SECTION H-PLANE	524BE+00	.6642E+00	. 8164E+00	. 9931E+00	2.1961E+00	2.4275E+00	2.6894E+00	2.9841E+00	3.31416+00	3.6812E+00	.0874E+00	.5337E+00	.0205E+00	5.5470E+00	B.1113E+00	.7096E+00	.3370E+00	.9864E+00	. 6494E+00	.3158E+00	.9743E+00	1.0612E+01	217E+01	.1775E+01	.2273E+01	.2699E+01	.3042E+01	.3295E+01	.3449E+01	.3500E+01	
CROSS H-		-	-	.	2.	4.	5.6	5.0	3.3	3.6	4.0	4.5	9.0	5.	.	6.7	7.3	7.9	89.	9.3	6.	-	-	Ξ	-	-	3	-:	<u>.</u>	-	
NORMALIZEO CROSS SECTION E-PLANE H-PLANE	00455500	3.30505+00	3.6787E+00	4.0292E+00	4.3512E+00	4.6422E+00	4.9025E+00	5.1355E+00	5.3473£+00	5.5467E+00	5.7443E+00	5.9519E+00	6.1819E+00	6.4458E+00	6.7537E+00	7.1133E+00	7.5290E+00	8.0011E+00	8.5261E+00	9.0957E+00	9.69786+00	1.0316E+01	1.0933E+01	1.1526E+01	1.2075E+01	1.2559E+01	1.2957E+01	1.3255E+01	1.3438E+01	1.3500E+01	
ANGLE		124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE	1077811111	1.0784F+00	1.1142E+00	1.1508E+00	1.1871E+00	1.2219E+00	1.2542E+00	1.2827E+00	1.3065E+00	1.3248E+00	1.3369E+00	1.3425E+00	1.3414E+00	1.3338E+00	1.3202E+00	1.3015E+00	1.2787E+00	1.2534E+00	1.2271E+00	1.2018E+00	1.1793E+00	1.1617E+00	1.1512E+00	1.1495E+00	1.1588E+00	1.1808E+00	1.2171E+00	1.2693E+00	1.3387E+00	1.4268E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1 62156400	1.6725E+00	1.7051E+00	1.7166E+00	1.7047E+00	1.6680E+00	1.6058E+00	1.5187E+00	1.4084E+00	1.2776E+00	1.1306E+00	9.7253E-01	8.0984E-01	6.4974E-01	5.0012E-01	3.6919E-01	2.6515E-01	1.9575E-01	1.6797E-01	1.8754E-01	2.5866E-01	3.8362E-01	5.6266E-01	7.9379E-01	1.0728E+00	1.3936E+00	1.7479E+00	2.1266E+00	2.5193E+00	
ANGLE	1 6	2.43	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	98.0	90.06	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1 42655+00	1 4209E+00	1.4117E+00	1.3989E+00	1.3827E+00	1.3634E+00	1.3410E+00	1.3160E+00	1.2885E+00	1.2591E+00	1.2281E+00	1.1959E+00	1.1631E+00	1.1302E+00	1.0978E+00	1.0663E+00	1.0365E+00	1.0090E+00	9.8422E-01	9.6287E-01	9.45465-01	9.3246E-01	9.2428E-01	9.2125E-01	9.2356E-01	9.31316-01	9.4445E-01	9.6277E-01	9.8592E-01	1.0134E+00
NORMALIZED C E-PLANE		00136667	4 40835+00	1.3837E+00	1.3502E+00	1.3089E+00	1.2605E+00	1.2068E+00	1.1491E+00	1.0891E+00	1.0285E+00	9.6911E-01	9.1268E-01	8.6101E-01	8.1579E-01	7.7861E-01	7.5083E-01	7.3386E-01	7.2854E-01	7.3564E-01	7.5559E-01	7.8845E-01	8.3391E-01	8.9127E-01	9.5939E-01	1.0367E+00	1.1212E+00	1.2105E+00	1.3019E+00	1.3920E+00	1.4777E+00
ANGLE			4 4	6.0	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

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KA= 3.6

NORMALIZED CROSS SECTION	H-PLANE	*************	1.3979E+00	1.4980E+00	1.6224E+00	1.7733E+00	_	_	_	2.7003E+00	3.0293E+00	_	-	_	_	_	_	_	•	9.2195E+00	<u>.</u>	œ ~	_	1.1381E+01	1.2124E+01	1.2815E+01	1.3434E+01	1.3967E+01	1.4398E+01	1.4715E+01	_	1.4975E+01	
NORMAL 1 ZEC	E-PLANE		2.32536+00	2.7733E+00	3.2230E+00	3.6623E+00	4.080 BE +00	4.4711E+00	4.8286E+00	5.1528E+00	5.4470E+00	5.71816+00	5.9765£+00	6.2350E+00	6.5079E+00	6.8099E+00	7.154BE+00	7.5540E+00	8.0155E+00	B.5428E+00	9.1342E+00	9.7822E+00	1.0474E+01	1,1192E+01	1.1913E+01	1.2613E+01	1.3265E+01	1.3842E+01	1.4320E+01	1.467BE+01	1.4900E+01	1.4975E+01	
	ANGLE	•	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE		9.5668E-01	9.7418E-01	9.9726E-01	1.0253E+00	1.0574E+00	1.0926E+00	1.1298E+00	1.1675€+00	1.2045E+00	1.2393E+00	1.2707E+00	1.2973E+00	1.3181E+00	1.3325E+00	1.3398E+00	1.3401E+00	1.3335E+00	1.3208E+00	1.3029E+00	1.2813E+00	1.2578E+00	1.2343E+00	1.2130E+00	1.1963E+00	1.1864E+00	1.1857E+00	1.1966E+00	1.2212E+00	1.2615E+00	1.3198E+00	
NORMALIZED (E-PLANE		1,0976E+00	1,2124E+00	1.3272E+00	1.4372E+00	1.5372E+00	1.6221E+00	1.686BE+00	1.7268E+00	1,7381E+00	1.7182E+00	1.6654E+00	1.5800E+00	1.4637E+00	1,3204E+00	1,1556E+00	9.766E-01	7.9235E-01	6.1276E-01	4.4869E-01	3.1119E-01	2.1099E-01	1.5785E-01	1.6001E-01	2.2360E-01	3.522E-01	5.4657E-01	8.0436E-01	1.1203E+00	1.4863E+00	1.8920E+00	
	ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION	H-PLANE	1111111	1.5751E+00	1.5739E+00	1.5703E+50	1.5642E+00	1.5556E+00	1.5446E+00	1.5311E+00	1.5150E+00	1.4965E+00	1,4755E+00	1,4520E+00	1.4262E+00	1.3982E+00	1.3680E+00	1.3360E+00	1.3023E+00	1.2673E+00	1.2314E+00	1.1950E+00	1.1588E+00	1,1231E+00	1.0888E+00	1.0564E+00	1.0266E+00	1.0002E+00	9.7780E-01	9.6005E-01	9.4752E-01	9.4066E-01	9.3982E-01	9.4516E-01
NORMAL I ZED	E-PLANE		1.57516+00	1.5709E+00	1.5583E+00	1.5374E+00	1.5086E+00	1.4723E+00	1.4290E+00	1.3793E+00	1.3239€+00	1.2636E+00	1.1994E+00	1.1321E+00	1.06290+00	9.9277E-01	9.2306E-01	8.5508E-01	7.9024E-01	7.3004E-01	6.7607E-01	6.2996E-01	5.9334E-01	5.6781E-01	5.5488E-01	5.55885-01	5.71886-01	6.0359E-01	8.5129E-01	7.1472E-01	7.9300E-01	8.8455E-01	9.6710E-01
	ANGLE	-	0.0	7.0	4	9.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA* 3.8

NDRMALIZED CROSS SECTION E-PLANE H-PLANE	1.3293E+00	1.3983E+00	1.4911E+00	1.6110E+00	1.7616E+00	1.9470E+00	2.1716E+00	2.4402E+00	2.7581E+00	3.1305E+00	3.5625E+00	4.0586E+00	4.6222E+00	5.2553E+00	5.9577E+00	6.7270E+00	7.5576E+00	8.4409E+00	9.3648E+00	1.0314E+01	1.1271E+01	1.2214E+01	1.3122E+01	1.3970E+01	1.4736E+01	1.5398E+01	1.5936E+01	1.6332E+01	1.6575E+01	1.6657E+01	
NDRMALIZED C E-PLANE	1.6940E+00	2.1566E+00	2.6449E+00	3.1434E+00	3.6371E+00	4.1135E+00	4.5628E+00	4.9796E+00	5.3630E+00	5.71706+00	6.0503E+00	6.3755E+00	6.7083E+00	7.0659E+00	7.4654E+00	7.9223E+00	8.4483E+00	9.0503E+00	9.7290E+00	1.047BE+01	1.1284E+01	1.2126E+01	1.2979E+01	1.3812E+01	1.4592E+01	1.52876+01	1.5864E+01	1.6297E+01	1.6566E+01	1.6657E+01	
ANGLE	 122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE	 9.4204E-01	9.3929E-01	9.4284E-01	9.5296E-01	9.6963E-01	9.9259E-01	1.0213E+00	1.0548E+00	1.0921E+00	1.1318E+00	1.1725E+00	1.2124E+00	1.2500E+00	1.2837E+00	1.3122E+00	1.3343E+00	1.3491E+00	1.3564E+00	1.3561E+00	1.3488E+00	1.3355E+00	1.3176E+00	1.2971E+00	1.2759E+00	1.2567E+00	1.2418E+00	1.2342E+00	1.2364E+00	1.2511E+00	1.2812E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	7.2927E-01	8.2734E-01	9.42586-01	1,0712E+00	1,2084E+00	1.3480E+00	1.4835E+00	1.6077E+00	1.7131E+00	1.7927E+00	1.8404E+00	1.8511E+00	1.8214E+00	1.7502E+00	1.6386E+00	1,4902E+00	1,3113E+00	1,1108E+00	8.9947E-01	6,9008E-01	4.9635E-01	3.3242E-01	2,1192E-01	1.4720E-01	1.4843E-01	2.2291E-01	3.7449E-01	6.0317E-01	9.0500E-01	1.2723E+00	
ANGLE	 62.0	64.0	66.0	68.0	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	96.0	88.0	0.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION H-PLANE	 1.2419E+00	1,24245+00	1.2436E+00	1.24575+00	1.2424E+00	1.2515E+00	1.2550E+00	1.2586E+00	1.2619E+00	1.264BE+00	1.26695+00	1.2678E+00	1.2672E+00	1.2649F+00	1.26046+00	1.2536E+00	1.24436+00	1.2323F+00	1.2175E+00	1.20005+00	1,1799E+00	1,15756+00	1.1332E+00	1.1074E+00	1.0808E+00	1.0542E+00	1.0283F+00	1.0041E+00	9.8249E-01	9.6436E-01	9.5061E-01
NORMALIZED (E-PLANE	1.24195+00	1.2419E+00	1.2418E+00		1.240RF+00			1.23305+00	1.2270E+00	1.21836+00					1 1 1 2 5 F + 00	1.07535+00	1.03215+00	9.8337F-01	9.2972E-01	R 7240F-01		7.5329F-01			5.9881E-01	5.6510E-01	5.4526F-01	5.4100F-01	5.5756F-01	5.9361E-01	6.5092E-01
ANGLE	0.0	0	4			9		14.0	9	9	0.00	20.00	24.0	26.0	0 0		32.0	34.0	96	9 0	9	6.0	0.44	46.0	48.0	9		4.5	9.8	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

SCHOOL STREET

KA= 4.0

SS SECTION H-PLANE		.3187E+00	.3580E+00	1.4187E+00	1.5049E+00	1.6210E+00	1.7722E+00	1.9643E+00	2.2037E+00	2.4975£+00	2.8531€+00	3.27816+00	3.7795E+00	4.3635E+00	5.0344£+00	5.7944E+00	6.6424E+00	7.5737E+00	B. 5794E+00	3.6461E+00	1.0756E+01	1.1886E+01	1.3012E+01	1.4104E+01	1.51336+01	1.6067E+01	1.6879E+01	1.7540E+01	1.8030E+01	1.8331E+01	.8432E+01	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.0709E+00	1.4979E+00	1.97046+00	2.4935E+00	3.03785+00	3.5833E+00	4.11135+00	4.619EE+00	5.09916+00	5.54416+00	5.97495+00	6.3870E+00	6.8006E+00	7.23435+00	7.70755+00		•	9.53:16E+00	1.0313E+01	1.1174E+01	1.2105E+01	1.3083E+01	1.4079E+01	1.5057E+01	1.5977E+01	1.6800E+01	1.7486E+01	1.8002E+01	1.83235+01	1.8432E+01	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE		1.0045E+00	9.8741E-01	9.7401E-01	9.6539E-01	9.6254E-01	9.6618E-01	9.7679E-01	9.9449E-01	1.0190E+00	1.0498E+00	1.0858E+00	1.1258E+00	1.1681£+00	1.2110E+00	1.2525E+00	1.2910E+00	1.3245E+00	1.3518E+00	1.3718E+00	1.3838E+00	1.3878E+00	1.3842E+00	1.3741E+00	1.3590E+00	1.3409E+00	1.3222E+00	1.3055E+00	1.2937E+00	1.2899E+00	1.2971E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		5.9454E-01	6.1777E-01	6.6842E-01	7.4633E-01	8.4967E-01	9.7491E-01	1.1168E+00	1.2687E+00	1.4225E+00	1.5693E+00	1.6998E+00	1.8048E+00	1,8759E+00	1.9061E+00	1.8903E+00	1.8262E+00	1.7144E+00	1.5586E+00	1.3662E+00	1.1474E+00	9.1539E-01	6.8548E-01	4.7426E-01	2.9867E-01	1.7488E-01	1,1716E-01	1.3684E-01	2.4141E-01	4.3392E-01	7.1258E-01	
ANGLE		62.0	64.0	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SICTION H-PLANE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.8533E-01	7.86835-01	7.9131E-01	7.9873E-01	8.0930F-01	8.2202E-01	8.3761E-01	8.5559E-01	8.7571E-01	8.9767E-01	9.2111E-01	9.45-3E-01	9.7079E-01	9.960GE-01	1.0209E+00	1.04:8E+00	1.0670E+00	1.0871£+00	1.1044E+00	1.1185E+00	1.1288E+00	1.1351E+00	1.1370E+00	1.1345E+00	1.1277E+00	1,1169E+00	1.1024E+00	1.0849£+00	1.0654E+00	1.0447E+00	1.0240E+00
9		7.85335-01	7.86911-01	7.99625-01	8.172BE-01	8.41616-01	8.72195-01	9.0840E-01	9.49452-01	9.94325-01	1.0417E - 00	1.0903E+00	1.13815-00	1.18351.00	1.22435:00	1.25855+00	1.2842 +00	1.29935+00	1.3024E+00	1.29235+00	1.2683E+00	1.2305E+00	1.1795E+00	1.1168E+00	1.0447E+00	9.662BE-01	8.8519E-01	8.0572E-01	7.3251E-01	6.70346-01		5.9744E-01
ANGLE		0.0	0.	0.4	6.0	G.8	0.01	12.0	0.41	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

Reserved the second of the sec

VA- 4.2

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

THE PROPERTY OF SECURITY SECURITY SECURITY SECURITY

H-PLANE
1.3867E-00
1.3867E-00
1.3867E-00
1.4732E-00
1.8249E-00
2.3256E-00
2.3256E-00
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1.8249E-00
2.3256E-00
1.274E-01
1.3602E-01
2.0653E-01
2.0653E-01 2.0337E-01 7.7312E-01 1.2148E-00 1.7213E-01 2.3372E+00 2.3372E+00 4.3015E+00 4.3015E+00 6.2057E+00 6.2057E+00 6.2057E+00 6.2057E+00 1.350E+01 1.350E+01 1.3612E+01 1.362E+01 1.362E+01 1.362E+01 1.362E+01 1.362E+01 NORMALIZED E-PLANE NORMALIZED E-PLANE 9.2709E-01 6.2138E-01 5.5558E-01 5.171E-01 6.130IE-01 1.0199E+00 1 ANGLE 642.0 664.0 CROSS SECTION H-PLANE 9.0629E-01 9.0543E-01 9.98%8E-01 8.98%8E-01 8.9736E-01 8.6140E-01 8.5725E-01 8.5725E-01 8.5725E-01 8.5725E-01 8.5725E-01 9.5725E-01 9.5725E-01 9.5725E-01 9.5725E-01 9.5725E-01 9.5725E-01 9.5725E-01 9.5725E-01 9.5725E-01 9.7725E-01

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 4.6

CROSS SECTION H-PLANE		-	-	1.4324E+00	1.4401E+00	-	0 1.5096E+00	0 1.5865E+00	1.7043E+00	0 1.8754E+00	3 2.1141E+00	2.4366E+00	2.8605E+00	3.4036E+00	0 4.0832E+00	0 4.9137E+00	0 5.9056E+00		1 8.3819E+00	1 9.849BE+00	-	1.3129E+01	1.4863E+01	1.6594E+01	1 1.8265E+01	1.9815E+01	1 2.11835+01	1 2.2313E+01	1 2.31586+01	1 2.3681E+01	1 2.3858£+01	
NORMALIZED E-PLANE		6.0361E-02	1.4771E-01	3.6375E-01	7.06715-01	1.1691E+00	1.7337E+00	2.3781E+00	3.0772E+00	3.8059E+00	4.5425E+00	5.2719E+00	5.98756+00	6.6922E+00	7.3986E+00	8.1274E+00	8.9045E+00	9.7576E+00	1.0711E+01	1.1783E+01	1.2990E+01	1.4293E+0	1.56ngE+0	1.7160E+01	1.8621E+01	2.0020E+01	2.1289E+01	2.2361E+0	2.3176E+01	2.3685E+01	2.3858E+01	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CROSS SECTION H-PLANE		1.1413E+00	1.1475E+00	1.1481E+00	1.1430E+00	1.1325E+00	1.1176E+00	1.0995E+00	1.0796E+00	1.0598E+00	1.0422E+00	1.0286E+00	1.0210E+00	1.0208E+00	1.0292E+00	1.0466E+00	1.0729E+00	1.1075E+00	1.1487E+00	1.1948E+00	1.2434E+00	1.2919E+00	1.3379E+00	1.3790E+00	1.4133E+00	1.4396E+00	1.4572E+00	1.4663E+00	1.4676E+00	1.4626E+00	1.4537E+00	
NORMALIZED C E-PLANE		1.2090E+00	1.1140E+00	1.0046E+00	8.8749E-01	7.7037E-01	6.6212E-01	5.7196E-01	5.0883E-01	4.8061E-01	4.9329E-01	5.5022E-01	6.5151E-01	7.9357E-01	9.6898E-01	1.1667E+00	1.3726E+00	1.5704E+00	1.7428E+00	1.8731E+00	1.9468E+00	1.9530E+00	1.8862E+00	1.7468E+00	1.5423E+00	1.2869E+00	1.0011E+00	7.1028E-01	4.4278E-01	2.2777E-01	9.2598E-02	
ANGLE	!	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION H-PLANE		1.2844E+00	1.2823E+00	1.2760E+00	1.2657E+00	1,2516E+00	1.2341E+00	1,2134E+00	1.1902E+00	1.1649E+00	1,1383E+00	1.1109E+00	1.0835E+00	1.0569E+00	1.0317E+00	1.0088E+00	9.8891E-01	9.7257E-01	9.60395-01	9.5278E-01	9.5003E-01	9.5223E-01	9.5930E-01	9.7094E-01	9.8663E-01	1,0057E+00	1.0271E+00	1.0498E+00	1.0728E+00	1.0945E+00	1.1140E+00	1.1299E+00
NORMALIZED C E-PLANE		1.2844E+00	1.2787E+00	0			1.1558E+00	1.1073E+00	1.0559E+00	1.0040E+00		9 3896E-01					8.2128E-01	8.4020E-01	8.7177E-01	9.15035-01	9.6830E-01				1.2268E+00	1.2848E+00		1.3638E+00		1.3697E+00	1.3390E+00	1.2851E+00
ANGLE	1	0.0	5.0	0.4	6.9	0.6	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	45.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

RESERVED TO A SECURITY OF THE PROPERTY OF THE

(A= 4.8

	NORMAL 1 ZED	NORMALIZED CROSS SECTION		NORMALIZED C	NORMALIZED CROSS SECTION		NORMAL I ZED	WORMALIZED CROSS SECTION
ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
				100	100000000000000000000000000000000000000			
o.	1.40316+00	1.40312+00	05.0	1.4034E+00	1.08435100	0.77	L. Danke- VI	Ontactor .
°.	1.3980E+00	1.4016E+00	64.0	1.3773E+00	1.1050E+00	124.0	4.58748-02	1.4973E+00
4.0	1.3827E+00	1.3969E+00	0.99	1.3211E+00	1.1219E+00	126.0	1.1314E-01	1.4901E+00
0.9	1.3576E+00	1.3890E+00	68.0	1.2364E+00	1.1340E+00	128.0	3.2336E-01	1.4868E+00
8.0	1.3234E+00	1.3781E+00	20.0	1.1277E+00	1.1405E+00	130.0	6.77658-01	1.4922E+00
10.0	1.2810E+00	1.3641E+00	72.0	1.0021E+00	1.1409E+00	132.0	1.1666E+00	1.5128E+00
12.0	1.2315E+00	1.3472E+00	74.0	8.6874E-01	1.1354E+00	134.0	1.7717E+00	1.5570E+00
14.0	1.1762E+00	1.3275E+00	16.0	7.3880E-01	1.1244E+00	136.0	2.4679E+00	1.6352E+00
16.0	1.1166E+00	1,3051E+00	78.0	6.2428E-01	1.1092E+00	138.0	3.2269E+00	1.7609E+00
18.0	1.0542E+00	1.2803E+00	80.0	5.3719E-01	1.0913E+00	140.0	4.0214E+00	1.9502E+00
20.0	9.9080E-01	1.2533E+00	82.0	4.8843E-01	1.0727E+00	142.0	4.828BE+00	2.222E+00
22.0	9.2817E-01	1.2245E+00	84.0	4.8658E-01	1.0556E+00	144.0	5.6347E+00	2.5986E+00
24.0	8.6826E-01	1.1943E+00	86.0	5.3686E-01	1.0423E+00	146.0	6.4356E+00	3.1022E+00
26.0	8.1309E-01	1,1632E+00	98.0	6.4019E-01	1.0348E+0D	148.0	7.2392E+00	3.7559E+00
28.0	7.6473E-01	1.1318E+00	90.06	7.9261E-01	1.0350E+00	150.0	8.0640E+00	4.5808E+00
30.0	7.2525E-01	1.1008E+00	95.0	9.85106-01	1.0442E+00	152.0	8.9365E+00	5.5935E+00
32.0	6.9666E-01	1.0708E+00	94.0	1.2039E+00	1.0631E+00	154.0	9.8876E+00	6.8041E+00
34.0	6.8082E-01	1.0427E+00	96.0	1.4313E+00	1.0916E+00	156.0	1.0947E+01	8.21345+00
36.0	6.7928E-01	1.0172E+00	0.86	1.6470E+00	1.1287E+00	158.0	1.2138E+01	9.8109E+00
38.0	6.93206-01	9.9500E-01	100.0	1.8298E+00	1.1729E+00	160.0	1.347.2E+01	1.1573E+01
40.0	7.2312E-01	9.7692E-01	102.0	1.9599E+00	1.2221E+00	162.0	1.4944E+01	1.3464E+01
42.0	7.6883E-U	9.6355E-01	104.0	2.0206E+00	1.2737E+00	164.0	1.6532E+01	1.5433E+01
44.0	8.2925E-01	9.5535E-01	106.0	2.0008E+00	1.3249E+00	166.0	1.81916+01	1.7420E+01
46.0	9.0227E-01	9.5265E-01	108.0	1.8963E+00	1.3731E+00	168.0	1.9862E+01	1.9354E+01
48.0	9.8478E-01	9.5552E-01	110.0	1,7115E+00	1.4158E+00	170.0	2.1472E+01	2.1161E+01
50.0	1.0726E+00	9.6379E-01	112.0	1,4592E+00	1.4513E+00	172.0	2.2940E+01	2.2767E+01
52.0	1.1607E+00	9.7703E-01	114.0	1.1603E+00	1.4783E+00	174.0	2.4185E+01	2.4100E+01
54.0	1.24346+00	9.9453E-01	116.0	8.4273E-01	1.4964E+00	176.0	2.51336+01	2.5100E+01
56.0	1.3146E+00	1.0153E+00	118.0	5.39106-01	1.5059E+00	178.0	2.5728E+01	2.5720E+01
58.0	1.3684E+00	1.0382E+00	120.0	2.8376E-01	1.5079E+00	180.0	2.5930E+01	2.5930E+01
80.0	1.3993E+00	1.0617E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BIS ATIC SCATTERING FROM CONDUCTING SPHERE

THE PROPERTY CONTRACT CONTRACT CONTRACTOR OF

CROSS SECTION
H-PLANE
H-PLANE
1.5538E+00
1.5528E+00
1.5528E+00
1.5528E+00
1.5528E+00
1.5538E+00
1.5538E+00
1.5538E+00
1.5538E+00
1.5528E+00
1.5528E+01
2.2450E-01 3.380E-02 8.8130E-02 8.9130E-01 1.1937E-02 1.1937E-00 1.1937E-00 2.5956E+00 2.5956E+00 3.4185E-00 5.1701E+00 6.9707E+00 1.119E+01 1.3240E+01 1.3240E+01 1.3240E+01 1.3240E+01 1.3240E+01 1.3240E+01 1.3240E+01 1.3240E+01 1.3242E+01 1.3242E+01 1.3243E+01 2.2945E+01 2.2945E+01 2.2945E+01 2.2945E+01 2.2945E+01 2.2945E+01 2.2056E+01 3.2056E+01 ANGLE 1226.0 1226.0 1226.0 1232.0 123 1.0218E + 00 1.0218E + 00 1.0218E + 00 1.1628E + 00 1.1328E + 00 1.1436E + 00 1.1276E + 00 1.0506E + 00 1.0556E + 00 1. CROSS SECTION H-PLANE 1.3977E+00 1.4572E+00 1.4672E+00 1.4672E+00 1.3370E+00 1.3370E+00 1.03370E+00 1.03370E+00 1.03370E+01 1.03370E+01 1.03370E+01 1.0327E+01 1.0253E+00 1.2553E+00 1.2563E+00 1.2563 NORMALIZED E-PLANE ທ ANGLE 664.0 665.0 665.0 665.0 665.0 772.0 1.1683E+00 1.1701E+00 1.1713E+00 1.1713E+00 1.1745E+00 1.1758E+00 1.1756E+00 CROSS SECTION H-PLANE E-PLANE
E-PLANE
1.1688E+00
1.1688E+00
1.1676E+00
1.1676E+00
1.1627E+00
1.1627

NGLE IN DEGREES FROM BACKSCATTER DIRECTION

Paragram Paragram

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 5.2

CROSS SECTION H-PLANE	1.5779E+00	1.5944E+00	1.6026E+00	1.6039E+00	1.6009E+00	1.5976E+00	1.6003E+00	1.6182E+00	1.6643E+00	1.7564E+00	1.9174E+00	2.1756E+00	2.5640E+00	3.1186E+00	3.8759E+00	4.8695E+00	6.1265E+00	7.6626E+00	9.4780E+00	1.1554E+01	1.38525+01	1.6310£+01	1.8846E+01	2.1365E+01	2.3756E+01	2.5908E+01	2.7713E+01	2.9078E+01	2.9928E+01	3.0217E+01	
NORMALIZED (6.7010E-01	3.5694E-01	1.28416-01	2.4355E-02	7.5271E-02	2.9898E-01	6.9890E-01	1.2643E+00	1.9728E+00	2.7941E+00	3.6956E+00	4.6484E+00	5.6321E+00	6.6396E+00	7.6782E+00	B.7695E+00	9.9454E+00	1.1243E+01	1.2695£+01	1.4324E+01	1.6135E+01	1.8106E+01	2.0191E+01	2.2315E+01	2.4383E+01	2.6287E+01	2.7915E+01	2.9164E+01	2.9949E+01	3.0217E+01	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION F-PLANE M-PLANE	9.8628E-01	1.0029E+00	1.0239E+00	1.0480E+00	1.0735E+00	1.0986E+00	1.1213E+00	1.1398E+00	1.1526E+00	1.1588E+00	1.1580E+00	1.1507E+00	1.1379E+00	1.1217E+00	1.1043E+00	1.08B6E+00	1.0773E+00	1.0732E+00	1.0782E+00	1.0937E+00	1.1203E+00	1.1572E+00	1.2030E+00	1.2555E+00	1.3119E+00	1.3690E+00	1.4240E+00	1.4741E+00	1.5173E+00	1.5522E+00	
NORMALIZED (1,1825E+00	1.2879E+00	1.3801E+00	1.4494E+00	1.4872E+00	1,4869E+00	1.4449E+00	1.3616E+00	1.2414E+00	1.0929E+00	9.28845-01	7.6478E-01	6.1807E-01	5.0614E-01	4.4456E-01	4.4511E-01	5.1404E-01	6.5073E-01	8.4689E-01	1.0868E+00	1.3480E+00	1.6037E+00	1.8249E+00	1.9840E+00	2.0581E+00	2.0321E+00	1.9017E+00	1.6747E+00	1.3714E+00	1.0232E+00	
ANGLE	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	95.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION	8.3355E-01	8.35258-01	8.4034E-01	8.4859E-01	8.6013E-01	8.7439E-01	8.9115E-01	9.0997E-01	9.3036E-01	9.51758-01	9.7348E-01	9.9488E-01	1.0152E+00	1.0337E+00	1.0498E+00	1.0627E+00	1.0719E+00	1.0771E+00	1.0780E+00	1.0747E+00	1.0674E+00	1.0567E+00	1.0433E+00	1.0281E+00	1.0124E+00	9.9745E-01	9.8451E-01	9.7484E-01	9.6954E-01	9.6944E-01	9.7500E-01
NORMALIZED C	8.3355E-01	8.37796-01	8.5039E-01	8.70945-01	8.9875E-01	9.3279E-01	9.7171E-01	1.0138E+00	1.0569E+00	1.0987E+00	1.1366E+00	1.1680E+00	1.1903E+00	1.2012E+00	1.1992E±00	1.1832E+00	1.1532E+00	1.1104E+00	1.0559E+00	9.95986-01	9.31985-01	8.6989E-01	8.15116-01	7.7304E-01	7.4860E-01	7.4573E-01	7.6695E-01	8.12936-01	8.8223E-01	9.7116E-01	1.0738E+00
E EN	0.0	2.0	4.0	0.9	9.0	0.01	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA= 5.4

NOSS SECTION H-PLANE		1.5768E+00	1.6104E+00	1.6343E+00	1.6485E+00	1.6539E+00	1.6528E+00	1.6493E+00	1.6509E+00	1.6690E+00	1.7206E+00	1.8292E+00	2.0250E+00	2.3452E+00	2.8322E+00	3.53106+00	4.4855E+00	5.7337E+00	7.3019E+00	9.1992E+00	1.14136+01	1.3904E+01	1.6609E+01	1.9434E+01	2.226BE+01	2.49826+01	2.7441E+01	2.9516E+01	3.1091E+01	3.2074E+01	3.2409E+01	
NORMALIZED CROSS SECTION E-PLANE M-PLANE		1.0976E+00	7.1946E-01	3.7963E-01	1,290BE-01	1.6928E-02	7.5874E-02	3.2721E-01	7.7435E-01	1.40:14E+00	2.1914E+00	3.1016E+00	4.1001E+00	5.15816+00	6.2589E+00	7.4014E+00	8.6017E+00	9.8898E+00	1.1305E+01	1.28856+01	1.4650E+01	1.6640E+01	1.8808E+01	2.1116E+01	2.3482E+01	2.5801E+01	2.7948E+01	2.9791E+01	3.1209E+01	3.2103E+01	3.2409E+01	
ANGLE	-	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		9.8603E-01	9.8755E-01	9.9528E-01	1.0090E+00	1.0281E+00	1.0511E+00	1.0764E+00	1.1019E+00	1.1254E+00	1.1447E+00	1.1583E+00	1.1650E+00	1.1643E+00	1.1569E+00	1.1441E+00	1.1279E+00	1.1113E+00	1.0973E+00	1.0889E+00	1.0888E+00	1.09916+00	1.1208E+00	1.15396+00	1.1974E+00	1.2493E+00	1.3070E+00	1.3673E+00	1.4271E+00	1.4835E+00	1.5340E+00	
NORMALIZED C E-PLANE		8.8040E-01	9.8154E-01	1.0950E+00	1.2106E+00	1.3168E+00	1.4018E+00	1.4547E+00	1.4667E+00	1.4326E+00	1.3516E+00	1.2283E+00	1.0722E+00	8.9796E-01	7.2412E-01	5.7119E-01	4.5968E-01	4.0747E-01	4.2740E-01	5.2498E-01	6.9688E-01	9.30295-01	1,2035E+00	1,4875E+00	1.7492E+00	1.95516+00	2.0753E+00	2.0885E+00	1.9851E+00	1.7699E+00	1.4627E+00	
ANGLE		62.0	64.0	99	68.0	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.20735-01	7.2198E-01	7.2574E-01	7.3205E-01	7.4097E-01	7.5254E-01	7.6631E-01	7.8378E-01	8.0335E-01	8.2542E-01	8.495RE-01	8.7578E-01	9.0320E-01	9.3132E-01	9.5941E-01	9.8652E-01	1.0121E+00	1.0349E+00	1.0543E+00	1.0695E+00	1.0799E+00	1,0851E+00	1.0852E+00	1.0804E+00	1.0712E+00	1.0585E+00	1.0435E+00	1.0277E+00	1.0125E+00	9.9954E-01	9.9031E-01
NORMALIZED C		7.2073E-01	7.2467E-01	7.3652E-01	7.5635E-01	7.8425E-01	B. 2014E-01	8.63735-01	9.1434E-01	9.7082E-01	0	0	0	0		1.3042E+00	0	0			1.2593E+00	•				B.7640E-01	•		7.2305E-01	7.1958E-01	7.4520E-01	7.9976E-01
ANG		0.0	0.7	4.0	9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	45.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	98 .0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 5.6

NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.5553E+00	1.6061E+00	1.6479E+00	1.6793E+00	1.6993E+00	1.7082E+00	1.7079E+00	1.7033E+00	1.7034E+00	1.7233E+00	1.7857E+00	1.9218E+00	2.1721E+00	2.5848E+00	3.2136E+00	4.1137E+00	5.3356E+00	6.9184E+00	8.0828E+00	1.1224E+01	1.3908E+01	1.6865E+01	1.9995E+01	2.3168E+01	2.6233E+01	2.9032E+01	3.1406E+01	3.3216E+01	3.4349E+01	3.4735E+01	
NORMALIZED C E-PLANE		1.5361E+00	1.14846+00	7.4332E-01	3.7983E-01	1.1762E-01	9.5124E-03	9.48.145-02	3.94876-01	9.1093E-01	1.62:0E+00	2.5091E+00	3.5227E+00	4.6309E+00	5.80768+00	7.0427E+00	8.3453E+00	9.7428E+00	1.1275E+01	1.2987E+01	1.4914E+01	1.7074E+01	1.9455E+01	2.2007E+01	2.46/3E+01	2.7244E+01	2.9664E+01	3.1753E+01	3.3366E+01	3.4386E+01	3.4735E+01	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0110E+00	9.9951E-01	9.9277E-01	9.9198E-01	9.9781E-01	1.0103E+00	1.0287E+00	1.0518E+00	1.0777E+00	1.1040E+00	1.1283E+00	1.1483E+00	1.1622E+00	1.1687E+00	1.1677E+00	1.1598E+00	1.1468E+00	1.1312E+00	1.1163E+00	1.1054E+00	1.1017E+00	1.1079E+00	1.1256E+00	1.1554E+00	1,1969£+00	1.2482E+00	1.3070E+00	1.3703E+00	1.4348E+00	1.4974E+00	
NORMALIZED C E-PLANE	1	6.7792E-01	7.23186-01	8.0060E-01	9.0521E-01	1,0285E+00	1.1591E+00	1.2832E+00	1.3863E+00	1.4546E+00	1,4769E+00	1.4461E+00	1.3609E+00	1.2267E+00	1.0555E+00	8.6569E-01	6.8012E-01	5.2384E-01	4.2095E-01	3.9131E-01	4.4731E-01	5.91296-01	8.1406E-01	1.094BE+00	1.4027E+00	1.7002E+00	1.9473E+00	2.1073E+00	2.1521E+00	2.0672E+00	1.8549E+00	
ANGLE		62.0	64.0	0.99	69.0	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION H-PLANE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9,1599E-01	9.1529E-01	9.1326E-01	9.1012E-01	9.06195-01	9.0193E-01	8.9787E-01	8.9458E-01	8.9265E-01	8.9265E-01	8.9507E-01	9.0031E-01	9.0850E-01	9.2002E-01	9.3444E-01	9.5152E-01	9.7072E-01	9.91295-01	1.0123E+00	1.032BE+00	1.0517E+00	1.06798+00	1.0805E+00	1.0887E+00	1.09196+00	1.0901E+00	1.0834E+C0	1.0724E+00	1.0582E+00	1.0421E+00	1.0258E+00
NORMALIZED C		9,15995-01	9.14865-01	9.1176E-01	9.0760E-01	9.0377E-01	9.0197E-01	9.0404E-01	9.1173E-01	9.26446-01	9.4909E-01	9.75906-01	1.0183E+00	1.9630E+00	1.1118E - 00	1,16136+00	1.2097E+00	1.2519E+00	1.2846E+00	1.3043E+00	1.3082E+00	1.2942E+00	1.26145+00	1.2103E+00	1.14285+00	1.0626E+00	9.7485E-01	8.8593E-01	8.0316E-01	7.3424E-01	6.8652E-01	6.6629E-01
ANGLE		0.0	5.0	0.4	0.9	8.0	10.0	17.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 5.8

ANGLE	NORMALIZED (E-PLANE	ED CROSS SECTION E H-PLANE	ANGLE	NORMALIZED (E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED C E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
1						!		
0.0	1.2057E+00	1.2057E+00	62.0	6.9568E-01	1.0450E+00	122.0	1.9064E+00	1.5184E+00
7.0	-	1.2034E+00	64.0	6.61218-01	1.0295E+00	124.0	1.5702E+00	1.5838E+00
4.0		1.1967E+00	66.0	6.6156E-01	1.0150E+00	126.0	1.15836+00	1.6429E+00
6.0	1.1534E+00	1.1858E+00	68.0	7.0065E-01	1.0032E+00	128.0	7.2950E-01	1.6930E+00
0.8	1.1166E+00	1.1711E+00	70.0	7.7831E-01	9.9608E-01	130.0	3.5107E-01	1.7316E+00
10.0	1.0739E+00	1.1531E+00	72.0	8.8969E-01	9.9503E-01	132.0	9.0232E-02	1.7569E+00
12.0		1.1324E+00	74.0	1.0252E+00	1.0009E+00	134.0	5.1304E-03	1.7682E+00
14.0		1.1099£+00	76.0	1.1711E+00	1.0139E+00	136.0	1.3723E-01	1.7672E+00
16.0	9.41635-01	1.0864E+00	78.0	1.3105E+00	1.0333E+00	138.0	5.0647E-01	1.7600E+00
18.0		1.0628E+00	80.0	1.4257E+00	1.0576E+00	140.0	1.1101E+00	1.7585£+00
20.0	8.8098E~01	1.0400E+00	82.0	1.4996E+00	1.0848E+03	142.0	1.9255E+00	1.7832E+00
22.0	8.5658E-01	1.0190E+00	84.0	1.5188E+00	1.1123E+00	144.0	2.9170E+00	1.8651E+00
24.0	8.6484E-01	1.0005E+00	86.0	1.4757E+00	1.1374E+00	146.0	4.044BE+00	2.0464E+00
26.0	8.7628E-01	9.8549E-01	88.0	1.3701E+00	1.1575E+00	148.0	5.2751E+00	2.3805E+00
28.0	9.0054E-01	9.7446E-01	90.06	1.2104E+00	1.1709E+00	150.0	6.5887E+00	2.9295E+00
30.0	9.3635E-01	9.67895-01	92.0	1.0137E+00	1.1763E+00	152.0	7.9871E+00	3.7603E+00
32.0	9.8149E-01	9.6601E-01	94.0	8.0406E-01	1.1740E+00	154.0	9.4931E+00	4.9376E+00
34.0	1.0328E+00	9.6879E-01	0.96	6.1012E-01	1.1650E+00	156.0	1.1147E+01	6.5157E+00
36.0	•	9.7594E-01	0.86	4.6172E-01	1.1518E+00	158.0	1.2997E+01	8.5298E+00
38.0	-	9.8689E-01	100.0	3.8554E-01	1.1374E+00	160.0	1.5087£+01	1.0987E+01
40.0	1.1829E+00	1.0008E+00	102.0	4.0085E-01	1.1253E+00	162.0	1.7442E+01	1.3857E+01
42.0	1.2160E+00	1.0166E+00	104.0	5.1587E-01	1.1193E+00	164.0	2.0053E+01	1.7071E+01
44.0	1.2332E+00	1.0332E+00	106.0	7.2526E-01	1.1224E+00	166.0	2.2873E+01	2.0520E+01
46.0	1.2310E+00	1.0490E+00	108.0	1.0094E+00	1.1369E+00	168.0	2.5806E+01	2.4056E+01
48.0	1.2075E+00	1.0630E+00	110.0	1.3356E+00	1.1640E+00	170.0	2.87188+01	2.7504E+01
50.0	1.1624E+00	1.0737E+00	112.0	1.6620E+00	1.2037E+00	172.0	3.1444E+01	3.0675E+01
52.0	1.0977€+00	1.0803E+00	114.0	1.9423E+00	1.2546E+00	174.0	3.3807E+01	3.3381E+01
54.0	1.0176E+00	1.0822E+00	116.0	2.1330E+00	1.3145E+00	176.0	3.5639E+01	3.5453£+01
56.0	9.2854E-01	1.0791E+00	118.0	2.1998E+00	1.3806E+00	178.0	3.6799E+01	3.67536+01
58.0	8.38795-01	1.0712E+00	120.0	2.1239E+00	1.4496E+00	180.0	3.7197E+01	3.71976+01
90.09	7.57895-01	1.0594E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 6.0

C CROS		- '	_	_	.1319E+00 1.6856E+00	<u>-</u>	01025-01 1.7892E+00	6140E-02 1.8185E+00	.2025E-02 1.8302E+00	.1057E-01 1.8263E+00	_	-	.3103E+00 1.8489E+00	1.4263E+00 1.9654E+00	6870E+00 2.2193E+00	649E+00 2.6804E+00	7.5524E+00 3.4273E+00		.0944E+01 6.0899E+00	•	196E+01 1.0681E+01	1.7752E+01 1.3724E+01			2.6944E+01 2.4877E+01		.3235E+01 3.2303E+01	3.5892E+01 3.5370E+01	.7958E+01 3.7727E+01	.9270E+01 3.9212E+01	-	
	•	•	_	_	_	9	e	LD.	136.0 1.2	7	9	_	~	n	-		152.0 7.5		-									m	m	~	n	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0718E+00	1.0626E+00	1.05016+00	1.0358E+00	1.0220E+00	1.0107E+00	1.0041E+00	1.0038E+00	1.0109E+00	1.0254E+00	1.0466E+00	1.0727E+00	1.1012E+00	1.1294E+00	1.1542E+00	1.1731E+00	1.1844E+00	1.1874E+00	1.1826E+00	1.1722E+00	1.1590E+00	1.1467E+00	1.1392E+00	1.1402E+00	1.1523E+00	1.1774E+00	1.2157E+00	1.2663E+00	1.3274E+00	1.3963€+00	
NÜRMALIZED (E-PLANE	100000	9.02016-01	8.0523E-01	7.266E-01	6.7820E-01	6.6932E-01	7.0544E-01	7.8665E-01	9.0700E-01	1.0546E+00	1,2122E+00	1.3595E+00	1.4750E+00	1.5395E+00	1.5389E+00	1.4668E+00	1.3269E+00	1.1335E+00	9.1031E-01	6.8863E-01	5.0295E-01	3.8621E-01	3.6442E-01	4.5177E-01	6.4706E-01	9.3211E-01	1.2729E+00	1.6231E+00	1.9306E+00	2.1450E+00	2.2264E+00	
ANGLE	1 0	0.29	64.0	66.0	68.0	0.07	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.30265+00	1.3008E+00	1.2952E+00	1.28G0E+00	1.2732E+00	1.2572E+00	1.2381E+00	1.2162E+00	1.1920E+00	1.16595+00	1.1335E+00	1,1105E+00	1,08286+00	1.0560E+00	1.0312E+00	1.0031E+00	9.9061E-01	9.7643E-01	9.6711E-01	9.6300F-01	9.6416E-01	9.7031E-01	9.8088E-01	9.9493E-01	1.0112E+00	1.0284E+00	1.044RE+00	1.0590E+00	1.0696E+00	1.0755£+00	1.07635+00
NORMALIZED C E-PLANE		1.30265+00	1.2967E+00	1.27925+00	1.2508€+00	1.2127£+00	1.1665E+50	1.1141E+00	1.05766.00	9.9932E-01	9.4186E-01	8.8777E-01	8.3969E-01	8.0023E-01	7.7186E-01	7.5678t-01	7.56756-01	7.7281E-01	8.0508E-01	8.5254E-01	9.1284E-01	9.8227E-01	1.05585+00	1.1273E+00	1.1901E+00	1.2374E+00	1.2633E+00	1.2633E+00	1.2351E-00	1.1794E+00	1.1000E+00	1.00436+00
NGLE	;	0.0	9.0	4.0	6.0	9.0	0.0	2.0	14.0	6.0	0.8	0.0	2.0	0.4	0.9	0.8	0.0	2.0	6.0	0.9	9.0	0.0	2.0	4.0	6.0	0.8	0.0	2.0	0.4	0.9	58.0	0.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA= 6.2

ROSS SECTION	THE LANG	***************************************	1.4153E+00	1.4939E+00	1.5757E+00	1.6569E+00	1.7331E+00	1.7993E+00	1.8503E+00	1.8813E+00	1.8905E+00	1.8808E+00	1.8643E+00	1.8655E+00	1.9251E+00	2.1014E+00	2.4704E+00	3.1216E+00	4.1506E+00	5.6485E+00	7.6878E+00	1.030BE+01	1.3504E+01	1.7210E+01	2.13056+01	2.5606E+01	2.9884E+01	3.3881E+01	3.73346+01	4.0001E+01	4.1686E+01	4.2262E+01	
NORMALIZED CROSS SECTION			2.2540E+00	2.1746E+00	1.9277E+00	1.5443E+00	1.0822E+00	6.1835E-01	2.38535-01	2.4202E-02	4.0838E-02	3.2912E-01	9.00756-01	1.7408E+00	2.81526+00	4.0827E+00	5.5084E+00	7.0751E+00	8.7913E+00	1.0691E+01	1.2825E+01	1.5249E+01	1.8004E+01	2.1094E+01	2.4472E+01	2.8034E+01	3.1615E+01	3.5004E+01	3.7969E+01	4.02836+01	4.1756E+01	4.2262E+01	
4	ARGLE	1 1 1 1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	HITTANE		1.0788E+00	1.0816E+00	1.0787E+00	1.0706E+00	1.0586E+00	1.0446E+00	1.0310E+00	1.0201E+00	1.0144E+00	1.0156E+00	1.0246E+00	1.0414E+00	1.0649E+00	1.0928E+00	1.1224E+00	1.1503E+00	1.1735E+00	1.1896E+00	1.1973E+00	1.1966E+00	1.1891E+00	1.1776E+00	1.1657E+00	1.1577E+00	1.1575E+00	1.1682E+00	1.1920E+00	1.2296E+00	1.2805E+00	1.3432E+00	
NORMALIZED CROSS SECTION	E-PLANE		1.1496E+00	1.0421E+00	9.2543E-01	8.1397E-01	7.2296E-01	6.6657E-01	6.5582E-01	6.9657E-01	7.8802E-01	9.2199E-01	1.0831E+00	1.2504E+00	1.3993E+00	1.5055E+00	1.5485E+00	1.5153E+00	1.4036E+00	1.2234E+00	9.9684E-01	7.5658E-01	5.4114E-01	3.89516-01	3.3463E-01	3.9709E-01	5.8023E-01	8.6756E-01	1,2234E+00	1.5971E+00	1.9297E+00	2.1639E+00	
	ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	1.4.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION	H-PLANE		1.1279E+00	1.1281E+00	1,1285E+00	1.12915+00	1,12966+00	1.1297E+00	1.1290E+00	1.1272E+00	1,1239E+00	1.1186E+00	1,1113E+00	1,1016F+00	1.0896E+00	1,0755E+00	1.0596E+00	1.0425E+00	1.0249E+00	1.0077E+00	9.9200E-01	9.7875E-01	9.68935-01	9.6335E-01	9.6257E-01	9.6678E~01	9.7579E-01	9.8897E-01	1.0052E+00	1.0232E+00	1.0412E+00	1.0575E+00	1.0705E+00
NORMALIZED C	E-PLANE	11111111	1.1279E+00	1.1273E+00	1.12546+03	1.12206+00	1.11665+00	1.1036E+00	1.0973E+00	1.08195+00	1.0619E+00	1.03565+00	1.0061F+00	9.7058E-01	9.3211E-31	8.9183E-01	8.52846-01	8.13586-01	7.9297E-01	7.7953E-01	7.8185E-01	8.0216E-01	8.4123E-01	8.9806E-01	9.69388-01	1.0499£+00	1.1326E+C0	1.2090E+00	1.2705E+00	1.3089E+00	1.3179E+00	1.2936E+00	1.2362E+00
	NGLE	:	0.0	5.0	0.	0.9	6.9	0.0	0.7	0.4.0	0.9	18.0	0.0	22.0	0.4	0.9	8.0	90.0	32.0	94.0	98.0	38.0	0.0	42.0	0.4	16.0	49.0	20.0	52.0	54.0	96.0	58.0	90.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

SS SECTION	H-PLANE	1.3621E+00	1.4383E+00	1.5230E+00	1.6127E+00	1.7030E+00	1.7883E+00	1.8619E+00	1.91655+00	1.9461E+00	1.9486E+00	1.9299E+00	1.9089E+00	1.8223E+00	2.0276E+00	2.304BE+00	2.8531E+00	3.7840E+00	5.2090E+00	7.2237E+00	9.8899E+00	1.321BE+01	1.7155E+01	2.1571E+01	2.6271E+01	3.0994E+01	3.5445E+01	3.9315E+01	4.2317E+01	4.4220E+01	4.4872E+01	
NORMALIZED CROSS SECTION	E-PLANE	2.2095F+00	2.2984E+00	2.2009E+00	1.9221E+00	1.5012E+00	1.0073E+00	5.300£E-01	1.6590E-01	3.01316-03	1.0804E-91	5.1729E-01	1.2346E+00	2.2363E+00	3.4830E+00	4.9311E+00	6.5634E+00	8.3696E+00	1.0381E+01	1.26-185+01	1.5233E+01	1.8184E+01	2.15146+01	2.51815+01	2.9075E+01	3.3016E+01	3.6769E+01	4.0069E+01	4.2654E+01	4.4305E+01	4.4872E+01	
;	ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE	1 06205+00	1.0754E+00	1.0841E+00	1.0871E+00	1.0841E+00	1.0757E+00	1.0633E+00	1.0490E+00	1.0356E+00	1.0257E+00	1.0218E+00	1.0257E+00	1.0379E+00	1.0582E+00	1.0846E+00	1.1145E+00	1.1445E+00	1.1711E+00	1.1913E+00	1.2033E+00	1.2066E+00	1.2022E+00	1.1927E+00	1.1820E+00	1.1743E+00	1.1737E+00	1.1839E+00	1.2072E+00	1.2450E+00	1.2970E+00	
NORMALIZED C	E-PLANE	1 29165+00	1.2324E+00	1.1406E+00	1.0251E+00	8.9954E-01	7.8041E-01	6.8536E-01	6.3058E-01	6.2821E-01	G.8385E-01	7.9487E-01	9.4963E-01	1.1282E+00	1.3045E+00	1.4497E+00	1.5369E+00	1.545BE+00	1.4670E+00	1.3053E+00	1.0805E+00	9.2606E-01	5.8455E-01	4.0143E-01	3.17106-01	3.5899E-01	5.3502E-01	8.2989E-01	1.2053E+00	1.6046E+00	1.9610E+00	
	ANGLE	6.5	9.49	99	0.89	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION	H-PLANE	• C C C C C C C C C	0.0/0/2-01	8 7509F-01	8.8412E-01	8.9632E-01	9.1124E-01	9.2830E-01	9.4683E-01	9.6604E-01	9.8500E-01	1.0031E+00	1.0192E+00	1.0326E+00	1.0425E+00	1.0486E+00	1.0504E+00	1.0482E+00	1.0421E+00	1.0330E+00	1.0215E+00	1.0092E+00	9.9721E-01	9.8691E-01	9.7962E-01	9.7639E-01	9.7790E-01	9.8436E-01	9.9546E-01	1.0103E+00	1.0275E+00	1.0454E+00
NORMALIZED C	E-PLANE		0.07075-01	B 8651F-01	9.0912E-01	9.3901E-01	9.7435E-01	1.0128E+00	1.0516E+00	1.0875E+00	1.11736+00	1.1379E+00	1.1467E+C0	1.1418E+00	1.1228E+00	1.09035+00	1.0469E+00	9.9632E-01	9.43576-01	8.9454E-01	8.5532E-01	8.31525-01	8.2760E-01	8.46135-01	8.8723E-01	9.4853E-01	1.0245E+00	1.1075E+00	1.1880E+00	1.2555E+00	1.3002E+00	1.3139E+00
	NGLE) c	. 4		. 6	10.0	12.0	0.4	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 6.6

		-	_	2.3475E+00 1.4681E+00	-	.88H3E+00 1.6595E+00	-	- -	-	~	 	2.3783E-01 2.0041E+00	8.03:10E-01 1.9741E+00	_		0		.8839E+00 3.4504E+00	_	_	_	_	-	_	_	_	e -	2236E+01 4.1360E+01	• -	_	4.7609E+01 4.7609E+01
			•••	•	128.0 2.3	-	-							_		•	152.0 6.0	_	o	-	_	_		•			••	•	•	178.0 4.0	•
MOSS SECTION H-PLANE		1.0295E+00	1.0470E+00	1.0635E+00	1.0769£+00	1.0854E+00	1.0879E+00	1.0843E+00	1.0751E+00	1.0623E+00	1.0483E+00	1.0360E+00	1.0285E+00	1.0281E+00	1.0363E+00	1.0534E+00	1.0780E+00	1.1078E+00	1.1393E+00	1.1687E+00	1.1926E+00	1.2085E+00	1.2155E+00	1.2143E+00	1.2072E+00	1.1980E+00	1.1912E+00	1.1910E+00	1.2014E+00	1.2252E+00	1.2639£+00
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.2687E+00	1.2914E+00	1.2745E+00	1.2163E+00	1,1210E+00	9.9918E-01	8.6675E-01	7.4344E-01	6.5003E-01	6.0503E-01	6.2127E-01	7.0291E-01	8.4349E-01	1.0256E+00	1.2224E+00	1.4014E+00	1.5292E+00	1.5778E+00	1.5306E+00	1,3866E+00	1.1633E+00	8.9492E-01	6.28736-01	4.1717E-01	3.0844E-01	3.3665E-01	5.1344E-01	8.2322E-01	1.2231E+00	1.6486E+00
ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	90.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0
NORMALIZED CROSS SECTION E-PLANE H-PLANE		7.7529E-01	7.7684E-01	7.8151E-01	7.8929E-01	8.0016E-01	8.1408E-01	8.3091E-01	8.5045E-01	8.7233E-01	8.9606E-01	9.2101E-01	9.4638E-01	9.7127E-01	9.9468E-01	1.0156E+00	1.0331E+00	1.0465E+00	1.0550E+00	1.0584E+00	1.0569E+00	1.0509E+00	1.0413E+00	1.0293E+00	1.0164E+00	1.0041E+00	9.9426E-01	9.88105-01	9.8671E-01	9.9060E-01	9.9964E-01
NORMALIZED C E-PLANE		7.75295-01	7.8012E-01	7.9457E-01	8.18525-01	8.5164E-01	8.93235-01	9.4206E-01	9.9623E-01	1.05315+00	1.1095E+00	1.1615E+00	1.2052E+00	1.2366E+00	1.2525E+00	1.2506E+00	1.2299E+00	1.1912E+00	1.1369E+00	1.0713E+00	1.0002E+00	9.3036E-01	8.6917E-01	8.2365E-01	7.9975E-01	8.0154E-01	8.3044E-01	8.8476E-01	9.59508-01	1.0465E+00	1.1351E+00
IGLE	!	0.0	2.0	0.	0	0.6	0	0.0	0	0.6	0.6	0.0	2.0	24.0	0.9	9.0	0.0	2.0	0.4	8.0	8.0	0.0	2.0	0.4	8.0	9.0	0.0	2.0	0:	9.0	0.6

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

	NORMAL 12ED	HORMALIZED CROSS SECTION		NORMALIZED C	IORMALIZED CROSS SECTION		NORMALIZED	NORMALIZED CROSS SECTION
ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
0.0	9.2578E-01	9.2578E-01	62.0	1,1191E+00	9.9967E-01	122.0	1.7163E+00	1.2872E+00
5.0	9.2510E-01	9.2524E-01	64.0	1.2105E+00	1.0132E+00	124.0	2.1009E+00	1.3441E+00
4.0	9.2349E-01	9.2373E-01	0.99	1.2770E+00	1.0301E+00	126.0	2.3408E+00	1.4174E+00
6.0	9.2207E-01	9.21536-01	68.0	1.3056E+00	1.0481E+00	128.0	2.3786E+00	1.5061E+00
9.0	9.2251E-01	9.1905E-01	70.0	1.2881E+00	1.0650E+00	130.0	2.1932E+00	1.6079E+00
10.0	9.2673E-01	9.1684E-01	72.0	1.2228E+00	1.0785E+00	132.0	1.8086E+00	1.7184E+00
12.0	9.3657E-01	9.1553E-01	74.0	1.1155E+00	1.0866£+00	134.0	1.2921E+00	1.8306E+00
14.0	9.5340E-01	9.1572E-01	76.0	9.8002E-01	1.0883E+00	136.0	7.4510E-01	1.9345E+00
16.0	9.7785E-01	9.1799E-01	78.0	8.3682E-01	1.0837E+00	138.0	2.8591E-01	2.0179E+00
18.0	1.0096E+00	9.2278E-01	80.0	7.1017E-01	1.0737E+00	140.0	2.9397E-02	2.0687E+00
20.0	1.0473E+00	9.3037E-01	82.0	6.2448E-01	1.0607E+00	142.0	6.7671E-02	2.0792E+00
22.0	1.0884E+00	9.4080E-01	84.0	5.9985E-01	1.0476E+00	144.0	4.5657E-01	2.0531E+00
24.0	1.12985+00	9.5389E-01	86.0	6.4772E-01	1.0377E+00	146.0	1.2113E+00	2.0125E+00
26.0	1.1676E+00	9.6916E-01	88.0	7.6759E-01	1.0341E+00	148.0	2.3127E+00	2.0060E+00
28.0	1.1976E+00	9.8592E-01	90.0	9.4547E-01	1.0389E+00	150.0	3.7220E+00	2.1140E+00
30.0	1.2159E+00	1.0032E+00	92.0	1,1547E+00	1.0530E+00	152.0	5.4012E+00	2.4496E+00
32.0	1.2192E+00	1.0200E+00	94.0	1,3596E+00	1.0758E+00	154.0	7.3324E+00	3.1536E+00
34.0	1.20546+00	1.0352E+00	96.0	1.5207E+00	1.1052E+00	156.0	9.5300E+00	4.3808E+00
36.0	1.1738E+00	1.0476E+00	98.0	1,6029E+00	1.1376E+00	158.0	1.2043E+01	6.2805E+00
38.0	1.1254E+00	1.0563E+00	100.0	1.5821E+00	1.1692E+00	160.0	1.49-11E+01	8.9709E+00
40.0	1.0631E+00	1.0607E+00	102.0	1.4522E+00	1.1961E+00	162.0	1.82916+01	1.25116+01
42.0	9.9210E-01	1.0604E+00	104.0	1,2281E+00	1.2155E+00	164.0	2.2128E+01	1.6877E+01
44.0	9.1882E-01	1.0555E+00	106.0	9.4582E-01	1.2258E+00	166.0	2.6420E+01	2.1945E+01
46.0	8.5110E-01	1.0466E+00	108.0	6.5750E-01	1.2275E+00	168.0	3.1050E+01	2.74B7E+01
48.0	7.97116-01	1.034BE+00	110.0	4.2277E-01	1.2228E+00	170.0	3.5804E+01	3.3182£+01
50.0	7.6446E-01	1.0216E+00	112.0	2.9740E-01	1.2154E+00	172.0	4.0390E+01	3.8644E+01
52.0	7.5909E-01	1.0086E+00	114.0	3.2124E-01	1.2098E+00	174.0	4.4465E+01	4.3457E+01
54.0	7.8423E-01	9.97625-01	116.0	5.0812E-01	1.2107E+00	176.0	4.7684E+01	4.7229E+01
56.0	8.3944E-01	9.9026E-01	118.0	8.4006E-01	1.2220E+00	178.0	4.9750E+01	4.9635E+01
98.0	9.2011E-01	9.8780E-01	120.0	1.2675E+00	1.2468E+00	180.0	5.0462E+01	5.04625+01
60.0	1.0174E+00	9.9094E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 7.0

CROSS SECTION H-PLANE	1.2707E+00	1.3137E+00	1.3747E+00	1.4544E+00	1.5523E+00	1.6658E+00	1.7895E+00	1.91376+00	2.024BE+00	2.1068E+00	2.1456E+00	2.1358E+00	2.0895E+00	2.0469E+00	2.0837E+00	2.3158E+00	2.8956E+00	3.9997E+00	5.8070E+00	8.4692E+00	1.207BE+01	1.6632E+01	2.2015E+01	2.7990E+01	3.4202E+01	4.0214E+01	4.55516+01	4.9754E+01	5.2445E+01	5.3371E+01	
NORMALIZED C E-PLANE	1.3332E+00	1.8015E+00	2.1853E+00	2.3986E+00	2.3854E+00	2.1340E+00	1.6845E+00	1.1239E+00	5.72476-01	1.61556-01	1.0399E-02	2.0599E-01	7.9194E-01	1.7693E+00	3.1093E+00	4.7738E+00	6.7336E+00	9.0111E+00	1.1636E+01	1.4687E+01	1.8238E+01	2.2336E+01	2.6955E+01	3.1975E+01	3.7168E+01	4.2209E+01	4.6711E+01	5.0281E+01	5.2578E+01	5.3371E+01	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CROSS SECTION H-PLANE	 9.8950E-01	9.9353E-01	1.0034E+00	1.0182E+00	1.0362E+00	1.0551E+00	1.0722E+00	1.0851E+00	1.0918E+00	1.0917E+00	1.0852E+00	1.0740E+00	1.0609E+00	1.0496E+00	1.0435E+00	1.0454E+00	1.0569E+00	1.0779E+00	1.1065E+00	1.13955+00	1.1726E+00	1.2019£+00	1.2239E+00	1.2369E+00	1.2411E+00	1.2386E+00	1.2331E+00	1.2292E+00	1.2314E+00	1.2441E+00	
NGRMALIZED CI E-PLANE	 9.3232E-01	1.0399E+00	1.1517E+00	1.2500E+00	1.3169E+00	1.3381E+00	1.3050E+00	1.2182E+00	1.0877E+00	9.3291E-01	7.8025E-01	6.5883E-01	5.9531E-01	6.0835E-01	7.0378E-01	8.71765-01	1.0867E+00	1.3104E+00	1.4984E+00	1.6084E+00	1.6096E+00	1.49086+00	1.2649E+00	9.6996E-01	6.6333E-01	4,11956-01	2.7874E-01	3.0827E-01	5.1485E-01	8.7596E-01	
ANGLE	 62.0	64.0	0.99	68.0	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
D CROSS SECTION H-PLANE	 1.1557E+00	1,1533E+00	1.1464E+00	1.1351E+00	1.1202E+00	1.1024E+00	1.0826E+00	1.0619E+00	1.0414E+00	1.0222E+00	1.0053E+00	9.9162E-01	9.81896-01	9.7655E-01	9.7575E-01	9.79316-01	9.8673E-01	9.9705E-01	1,00928+00	1.0219E+00	1.0337E+00	1.0432E+90	1.0494E+00	1.0514E+00	1.0490E+00	1.0424E+00	1.0324E+00	1.0206E+00	1.0085E+00	9.98138-01	9.9131E-01
NORMALIZED C E-PLANE	1.1557E+00	1.1493E+00	1.1308E+00	1.1019E+00	1.0656E+00	1.02535+00	9.84995-01	9.4862E-01	9.1977E-01	9.0136E-01	8.95378-01	9.0267E-01	9.2291E-01	9.5443E-01	9.9437E-01	1.0387E+00	1.0827E+00	1.1209E+00	1.1481E+00		1.1522E+00	1.1243E+00	1.0771E+00	1.0146E+00	9.4352E-01	8.7268E-01	8.1231E-01	7.7257E-01	7.6194E-01	7.85596-01	8.4404E-01
ANGLE	 0.0	5.0	4.0	9 .0	0.6	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	26.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA= 7.2

S SECTION	1.446	.2666E+00	.2958E+00	3424E+00	.4092E+00	.4976E+00	.6075E+00	.7356E+00	.8741E+00	2.0095E+00	2.1234E+00	2.1961E+00	2.2130E+00	2.1754E+00	2.1119E+00	2.0907E+00	2.2263E+00	2.6800E+00	3.6484E+00	5.3409E+00	7.9463E+00	1.1593E+01	.6310E+01	2.1995E+01	2.8400E+01	3.51436+01	4.1731E+01	4.7622E+01	5.2287E+01	5.5283E+01	5.63166+01	
CROSS	<u> </u>	1.2	-:2	3	* :	7.	6	1.7		7.0		5.7	7.5			8.0	2.5	5.6	3.6	5.3	7.9	Ξ	9.1		2.8		-	4.7	5.5	5.5	8.6	
NORMALIZED CROSS SECTION	בייייייי	9.38346-01	1.4287E+00	1.9127E+00	2.2847E+00	2.4549E+00	2.3727E+00	2.0414E+00	1.5223E+00	9.2610E-01	3.9273E-01	6.4639E-02	6.0995E-02	4.5821E-01	1.2842E+00	2.5260E+00	4.1502E+00	6.1286E+00	8.4610E+00	1.1187E+01	1.4381E+01	1.8126E+01	2.2479E+01	2.7424E+01	3.2841E+01	3.8485E+01	4.3999E+01	4.8951E+01	5.2893£+01	5.5437E+01	5.6316E+01	
-	ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	111111111111111111111111111111111111111	1.0027E+00	9.9671E-01	9.9603E-01	1.0015E+00	1.0129E+00	1.0292E+00	1.0483E+00	1.0673E+00	1.0835E+00	1.0944E+00	1.0983E+00	1.0951E+00	1.0859E+00	1.0735E+00	1.0613E+00	1.0533E+00	1.0529E+00	1.0622E+00	1.0816E+00	1.1095E+00	1.14286+00	1.1772E+00	1.2083E+00	1.2324E+00	1.2476E+00	1.2540E+00	1.2535E+00	1.2500E+00	1.2478E+00	1.2519E+00	
NORMALIZED C		7.9711E-01	8.6043E-01	9.5671E-01	1.0724E+00	1.1890£+00	1.28525+00	1.3411E+00	1.3419E+00	1.2816E+00	1.1651E+00	1.0090E+00	8.4003E-01	6.90556-01	5.9305E-01	5.7322E-01	6.4371E-01	7.9957E-01	1.0171E+00	1.2563E+00	1.4679E+00	1.6028E+00	1.6233E+00	1.5130E+00	1.2836E+00	9.7567E-01	6.5273E-01	3.8977E-01	2.5691E-01	3.0259E-01	5.3965E-01	
i	ANGLE	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	0.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	HIPLANE	1.23775+00	1.2356E+00	1.2293E+00	1.2189E+00	1.2048E+00	1.1873E+00	1.1668E+00	1.1439E+00	1.1194E+00	1.0940E+00	1.0687E+00	1.0444E+00	1.0222E+00	1.0029E+00	9.8762E-01	9.7688E-01	9.71175-01	9.7057E-01	9.7452E-01	9.8323E-01	9.9473E-01	1.0030E+00	1.0213E+00	1.0332E+00	1.0421E+00	1.0469E+00	1.0470E+00	1.0426E+00	1.0343E+00	1.0236E+00	1.0123E+00
NORMALIZED (E-PLANE	1.2377E+00			•		1,0916E+00	1.0389E+00	9.8473E-01	9.3249E-01	8.8548E-01	8.469GE-01	8.1934F-01	8.0697E-01	8.0987E-01	8.2942E-01	8.65032-01	9.1447E-01	9.7377E-01	1.03735+00	1.0982E+00	1.1489E+00	1.1824E+00	1.1928E+00	1.1769E+00	1.13485+00	1.0705E+00	9.9208E-01	9.1047E-01	8.3864E-01		7.7350E-01
	ANGLE	0	5.0	4	9.0	0.0	10.0	12.0	0.4	16.0	18.0	50.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	45.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA- 7 4

NORMAL 12ED	ED CROSS SECTION	# IONA	NORMALIZED (NORMALIZED CROSS SECTION F-PLANE H-DIANE	ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
1.1025E+00	1.1025E+00	62.0	7.7201E-01	1.0280£+00	122.0	5.9322E-01	1.27285+00
•	1.1025E+00	64.0	7.5765E-01	1.0167E+00	124.0	1.0392E+00	1.2900E+00
	1,1025E+00	0.99	7.8851E-01	1.0074E+00	126.0	1.5650E+00	1.3225E+00
	1.1024E+00	0.89	8.6316E-01	1.0024E+00	128.0	2.05735+00	1.3744E+00
•	1.1017E+00	70.0	9.7184E-01	1.0032E+00	130.0	2.4005E+00	1.4493E+00
1.0742E+00	1.1003E+00	72.0	1.0971E+00	1.0105E+00	132.0	2.5049E+00	1.5496E+00
1.0587E+00	1.0977E+00	74.0	1.2163E+00	1.0240E+00	134.0	2.3315E+00	1.6752E+00
1.0385E+00	1.0935E+00	16.0	1.3051E+00	1.0419E+00	136.0	1.9056E+00	1.8210E+00
1.01335+00	1.0873E+00	78.0	1.3424E+00	1.0615€+00	138.0	1.3165E+00	1.9752£+00
9.83425-01	1.0791E+00	80.0	1.3148E+00	1.0799E+00	140.0	7.0206E-01	2.11896+00
9.5012E-01	1.0687E+00	82.0	1.2210E+00	1.0940E+00	142.0	2.2137E-01	2.2279E+00
9.15485-01	1.0562E+00	84.0	1.0730E+00	1.1015E+00	144.0	2.3482E-02	2.2797E+00
8.8257E-01	1.0422E+00	96.0	8.9636E-01	1.1015£+00	146.0	2.2037E-01	2.2635E+00
	1.0273E+00	88.0	7,2572E-01	1.0946E+00	148.0	8.71948-01	2.1950E+00
3765E-	1.0122E+00	90.06	5,9898E-01	1.0832E+00	150.0	1.9875E+00	2.1307E+00
3374E-	9.9803E-01	92.0	5.4909E-01	1.0709£+00	152.0	3.5435E+00	2.1804E+00
8.46475-01	9.8587E-01	94.0	5.9601E-01	1.0618£+00	154.0	5.5106E+00	2.5103E+00
8.7713E-01	9.7672E-01	96.0	7,4036E-01	1.0597E+00	156.0	7.88215+00	3.3349E+00
9.24725-01	9.7147E-01	0.86	9.6060E-01	1.06746+00	158.0	1.0632E+01	4.8944E+00
9.85716-01	9.7066E-01	100.0	1.2151E+00	1.0857E+00	160.0	1.4016E+01	7.4172E+00
•	9.7446E-01	102.0	1.4491E+00	1.11336+00	162.0	1.7974E+01	1.1074E+01
+	9.8253E-01	104.0	1.6063E+00	1.1471£+00	164.0	2.2547E+01	1.5930E+01
•	9.9403E-01	106.0	1.6418E+00	1.1826€+00	166.0	2.7820E+01	2.19036+01
1.2178E+00	1.0077E+00	108.0	1.5345E+00	1.21526+00	168.0	3.3644E+01	2.8741E+01
+	1.0218E+00	110.0	1.2960E+00	1.24116+00	170.0	3.9760E+01	3.6030E+01
+	1.0348E+00	112.0	9.7086E-01	1.2582£+00	172.0	4.5776E+01	4.3224E+01
+	1.0448E+00	114.0	6.3102E-01	1.2665€+00	174.0	5.12105+01	4.9705E+01
	1.0506E+00	116.0	3.6076E-01	1.26816+00	176.0	5.5555E+01	5.4865E+0
	1.0514E+02	118.0	2,3762E-01	1.2666£+00	178.0	5.8366E+01	5.81916+01
9.0621E-01	1.0472E+00	120.0	3,12356-01	1.2666E+00	180.0	5.9339E+01	5.93386+01

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 7.6

CROSS SECTION	TIPLANE	1.2870E+00	1.2957E+00	1.3159£+00	1.3528E+00	1.4119E+00	1.4982E+00	1.6147E+00	1.7603E+00	1.9264E+00	2.0952E+00	2.2404E+00	2.3324E+00	2.3487E+00	2.2902E+00	2.1992E+00	2.1761E+00	2.3881E+00	3.0647E+00	4.4760E+00	6.8930E+00	1.0534E+01	1.5506E+01	2.1754E+01	2.9029E+01	3.6885E+01	4.4718E+01	5.1829E+01	5.7524E+01	6.1207E+01	6.2482E+01	
٥	FIFLANE	3.4346E-01	6.82695-01	1.1832E+00	1.7402E+00	2.22:12E+00	2.5127E+00	2.5226E+00	2.23556+00	1.7076E+00	1.0619E+00	4.6431E-01	8.8455E-02	8.1512E-02	5.3947E-01	1.5002E+00	2.9561E+00	4.8817E+00	7.2667E+00	1.0141E+01	1,3578E+01	1.7680E+01	2.2531E+01	2.81396+01	3.4388E+01	4.1005E+01	4.7561E+01	5.3516E+01	5.8300E+01	6.1405E+01	6.2482E+01	
	ANGL	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE	1.0485E+00	1.0393E+00	1.0278E+00	1.0167E+00	1.0084E+00	1.0052E+00	1.0087E+00	1.0191E+00	1.0352E+00	1,0549E+00	1.0748E+00	1.0916E+00	1.1023E+00	1.1054E+00	1.1010E+00	1.0911E+00	1.0791E+00	1.0696E+00	1.0667E+00	1.0736E+00	1.0914E+00	1.1191E+00	1.1535E+00	1.1901E+00	1.22416+00	1.2516E+00	1.2705E+00	1.2806E+00	1.2842E+00	1.2848E+00	
NORMALIZED (FIPLANE	8.6844E-01	7.8708E-01	7.3886E-01	7.3625E-01	7.8444E-01	8.7917E-01	1.0062E+00	1.1429E+00	1.2615E+00	1.3350E+00	1.3425E+00	1.2751E+00	1.1396E+00	9.5950E-01	7.7131E-01	6.1832E-01	5.4101E-01	5.6690E-01	7.0211E-01	9.26855-01	1.1969E+00	1.4512E+00	1.6254E+00	1.6677E+00	1.5539E+00	1.2971E+00	9.4934E-01	5.9303E-01	3.2296E-01	2.2314E-01	
0.004	ANGLE	62.0	64.0	0.99	0.89	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	96.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
D CROSS SECTION	H-PLANE	8.9325E-01	8.9525E-01	9.0113E-01	9.1051E-01	9.23195-01	9.3819E-01	9.5480E-01	9.7206E-01	9.86.36-01	1.0044E+00	1.0174E+00	1.0273E+00	1.0333E+00	1.0352E+00	1.0330E+00	1.0273E+00	1.0190E+00	1.0091E+00	9.9910E-01	9.90435-01	9.8443E-01	9.8215E-01	9.8418E-01	9.9054E-01	1.0006E+00	1.0132E+00	1.0266E+00	1.0390E+00	1.0485E+00	1.0536E+00	1.0536E+00
NORMAL1ZED C	E-PLANE	B.9325E-01	8.98435-01	9.13555-01	9.37435-01	9.68075-01	1.0027E+00	1.0380E+00	1.0700E+00	1.0950E+00	1.1093E+00	1.1106E+00	1.9977E+00	1.0713E+00	1.0340E+00	9.90395-01	9.4632E-01	9.0847E-01	8.8328E-01	8.7595E-01	8.8953E-01	9.24146-01	9.7660E-01	1.0405E+00	1.1068E+00	1.1650E+00	1.2045E+00	1.2168E+00	1.1965E+00	1.1435E+00	1.0631E+00	9.6628E-01
	ANGLE	0.0	5.0	0.4	0.9	0.8	0.01	12.0	14.0	16.0	9	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	0.04	42.0	44.0	46.0	48.0	20.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTEPING TROM CONDUCTING SPHERE

K£± 7.8

NORMALIZED C	NORMALIZED CROSS SECTION	- C24	NOTRALIZED C	COUMALIZED CROSS SECTION F-PLANE H-PLANE	ANGIE	NORMALIZED F-PIANF	NORMALIZED CROSS SECTION F-PLANF H-PLANF
		1	1				
1,15145-01	8.15146-01	62.0	1.0389E+00	1.0529E+00	122.0	2.1690E-01	1.3052E+00
B.2075E-01	8.1696E-01	64.0	9.3687E-01	1.0519E+00	124.0	4.0082E-01	1.3097E+00
8.3746E-01	8.2242E-01	66.0	8.3690E-01	1.0457E+00	126.0	8.1044E-01	1.3209E+00
8.6478E-01	8.3146E-01	0.89	7.5969E-01	1.0358E+00	128.0	1.36618+00	1.3447E+00
.0177E-01	8.43935-01	20.0	7.2398E-01	1.0245E+00	130.0	1.94096+00	1.3876E+00
.4679E-01	8.5961E-01	72.3	7.4217E-01	1.0144E+00	132.0	2.3909E+00	1.4569E+00
.9736L-01	8.7814E-01	74.0	8.1668E-01	1.0084E+00	134.0	2.5929E+00	1.5590E+00
.0501E+00	B. 9900E-01	16.0	9.3784E-01	1.0087E+00	136.0	2.4802E+00	1.6970E+00
1009E+00	9.2149E-01	78.0	1.0843E+00	1.0163E+00	138.0	2.0654E+00	1.8669E+00
14516+00	9.4474E-01	80.0	1.2262E+00	1.0307E+00	140.0	1.4435E+00	2.0541E+00
1781E+00	9.6772E-01	82.0	1.3308E+00	1.0499E+00	142.0	7.7401E-01	2.2323E+00
19605+00	9.8932E-01	84.0	1.3699E+00	1.0709E+00	144.0	2.4685E-01	2.366BE+00
. 1960E+00	1.0084E+00	96.0	1.3272E+00	1.0899E+00	146.0	4.1309E-02	2.4243E+00
1770E+00	1.0240E+00	88.0	1.2038E+00	1.1034E+00	148.0	2.9190E-01	2.3901E+00
.1403E+00	1.0352E+00	90.06	1.0210E+00	1.1094E+00	150.0	1.07116+00	2.2894E+00
.0892E+00	1.0415E+00	95.0	8.1699E-01	1.1074E+00	152.0	2.3947E+00	2.208BE+00
.0292E+00	1.0428E+00	94.0	6.4053E-01	1.0990E+00	154.0	4.2474E+00	2.3120E+00
.6736E-01	1.0394E+00	96.0	5.3944E-01	1.0877E+00	156.0	6.6189E+00	2.8394E+00
.1161E-01	1.0322E+00	98.0	5.4846E-01	1.0782E+00	158.0	9.5356E+00	4.08965+00
B.6970E-01	1.0224E+00	100.0	6.7842E-01	1.0750E+00	160.0	1.3073E+01	6.3774E+00
.4812E-01	1.0116E+00	102.0	9.1012E-01	1.0817E+00	162.0	1.7340E+01	9.9737£+00
8.5104E-01	1.0013E+00	104.0	1.1954E+00	1.0996E+00	164.0	2.2436E+01	1.5036E+01
8.7941E-01	9.9338E-01	106.0	1.4661E+00	1.1278E+00	166.0	2.8384E+01	2.1542E+01
9.3032E-01	9.8905E-01	108.0	1.6497E+00	1.1631E+00	168.0	3.5074E+01	2.9252E+01
.9700E-01	9.8921E-01	110.0	1.6885£+00	1.2008E+00	170.0	4.2217E+01	3.7692E+01
.0693E+00	9.9405E-01	112.0	1.5570E+00	1.2360E+00	172.0	4.93.16£+01	4.6196E+01
.1352E+00	1.0030E+00	114.0	1.2735E+00	1.2648E+00	174.0	5.5860E+01	5.3979£+01
.1819E+00	1.0149E+00	116.0	9.0040E-01	1.2851E+00	176.0	6.1117E+01	6.0246E+01
.1990E+00	1.0278E+00	118.0	5.3263E-01	1.2970E+00	178.0	6.4539£+01	6.4316E+01
. 1800E+00	1.0397E+00	120.0	2.7552E-01	1.3025E+00	180.0	6.5727E+01	6.67278+01
.1244E+00	1.04865+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 8.0

S SECTION H-PLANE	.3223F+00	.32716+00	.3336E+00	.3476E+00	.3760E+00	.4275E+00	.5113E+00	.6351E+00	.8004E+00	.9976E+00	2.2029E+00	2.3790E+00	2.4835E+00	2.4862E+00	2.3927E+00	2.2722E+00	2.2789E+00	2.6595E+00	3.7381E+00	5.8739E+00	9.3943E+00	.4514E+01	2.1255E+01	2.9390E+01	3.8422E+01	4.7622E+01	5.6111E+01	6.2988E+01	6.7471E+01	6.9028E+01	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	2.2569F-01	2.2796E-01	4.9247E-01	9.80046-01	1.58:14E+00 1	2.155EE+00 1	2.5402E+00 1	2.6230E+00 1	2.3653E+00 1	_	_		9.69556-02 2	1.3449E-01							_	_	_		_	5.1107E+01 4		_	_	6.902BE+01 6	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE	1 04456+00	1.0499E+00	1.0532E+00	1.0508E+00	1.0435E+00	1.0331E+00	1.0223E+00	1.0144E+00	1.0121E+00	1.0170E+00	1.0296E+00	1.0481E+00	1.0696E+00	1.0901E+00	1.1060E+00	1.1143E+00	1.1142E+00	1.1071E+00	1.0966E+00	1.0873E+00	1.0843E+00	1.0912E+00	1.1097E+00	1.1388E+00	1.1752E+00	1.2139E+00	1.2501E+00	1.2800E+00	1.3015E+00	1.3150E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1 19025+00	1.1226E+00	1,0234E+00	9.1101E-01	8.0874E-01	7.4082E-01	7.2671E-01	7.7584E-01	8.8398E-01	1.0322E+00	1,1894E+00	1.3182E+00	1.3837E+00	1.3624E+00	1.2498E+00	1.0649E+00	8.4759E-01	6.5168E-01	5.3203E-01	5.2989E-01	6.5977E-01	9.0176E-01	1,2025E+00	1.4858E+00	1.6711E+00	1.6963E+00	1.5375E+00	1,2213E+00	8.2364E-01	4.5350E-01	
ANGLE	5.50	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION E H-PLANE	100000	9.33302-01	9.32376-01	9.3115E-01	9.3015E-01	9.29 145-01	9,312''E-01	9.34.,3E-01	9.40.10E-01	9,48306-01	9.59728-01	9.72:3E-01	9.87135-01	1.00105+00	1.01508+00	1.02×2E+00	1.03738+00	1.0426E+00	1.04356+00	1.0401E+00	1.0329E+00	1.023CE+00	1.0119E+00	1.0013E+00	9.9300E -01	9.88.19E-01	9.88745-01	9.9396E-01	1.0035E+00	1.0161E+00	1.0295E+90
NORMALIZED (E-PLANE		9.33505-01	9.33445-01		•	- 1	9.65516-01	1	+		•	+		1.16336.00	+	1.14548+00	1.1127E+00	1.06437+00	1.00585+00	9,4362; -01	8.85062-01	8.41705-01	8.18398-01	8.2177E-01	8.53865-01	9.1207E-01	9.888E-01	1.07245+00	1.1478E+00	1.1999E+00	
A GLE		9 0	4	0.9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA= 8.2

SS SECTION	H-PLANE		1.33426+00	1.3432E+00	1.3497E+00	1.3582E+00	1.3753E+00	1.4102E+00	1.4743E+00	1.5791E+00	1.7320E+00	1.9300E+00	2.1543E+00	2.3679E+00	2.5219E+00	2.5713E+00	2.5013E+00	2.3595E+00	2.2853E+00	2.5257E+00	3.4262E+00	5.3897E+00	8.8037E+00	1.3947E+01	2.0895€+01	2.9440E+01	3.9069E+01	4.8988E+01	5.8218E+01	6.5741E+01	7.08648+01	7.2377E+01	
NORMALIZED CROSS SECTION	E-PLANE		3.6557E-01	1.8607E-01	2.7035E-01	6.3110E-01	1.1998E+00	1.83916+00	2.37735+00	2.6593E+00	2.58376+00	2.1714E+00	_	7.9179E-01		~					8.2457E+00	_	_	2.2055E+01	_	3.6257E+01	4.4492E+01	5.2833E+01	_	_	_	7.2377E+01	
•	ANGLE	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE	b	1.0224E+00	1.0362E+00	1.0477E+00	1.0547E+00	1.0559E+00	1.0513E+00	1.0422E+00	1.0314E+00	1.0220E+00	1.0174E+00	1.0200E+00	1.0306E+00	1.0482E+00	1.0698E+00	1.0914E+00	1.1089E+00	1.1189E+00	1.1203E+00	1.1143E+00	1.1044E+00	1.0956E+00	1.0932E+00	1.1010E+00	1.1207E+00	1.1511E+00	1.1887E+00	1.2285E+00	1.2656€+00	1.2965E+00	1.3192E+00	
NORMALIZED CROSS SECTION	E-PLANE		1.2335E+00	1.2352E+00	1.1879£+00	1.0972E+00	9.7898E-01	8.5769E-01	7.6160E-01	7.1639E-01	7.38535-01	8.2974E-01	9.7456E-01	1,1418E+00	1.2904E+00	1.3793E+00	1.3777E+00	1.2760E+00	1,0902E+00	8.62135-01	6.5072E-01	5.1781E-01	5.1078E-01	6.4685E-01	9.0394E-01	1.2218E+00	1.5150E+00	1.6949E+00	1.6964E+00	1.5005E+00	1.14635+00	7.2644E-01	
	ANGLE	1 1 1	62.0	64.0	0.99	68.0	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	96.0	98.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PI ANE		1.1213E+00	1.1188E+00	1,1117E+00	1.1004E+30	1.0857E+00	1.0686E+00	1.0503E+00	1.0322E+00	1.0154E+00	1.0012E+00	9.9044E-01	9.8383E-01	9.8162E-01	9.8369E-01	9.8945E-01	9.9797E-01	1.0080E+00	1.0180E+00	1.0266E+00	1.0325E+00	1.0347E+00	1.0330E+00	1.0274E+00	1.0190E+00	1.0092E+00	9.9979E-01	9.9264E-01	9.8940E-01	9.9107E-01	9.9782E-01	1.0088E+00
NORMALIZED C	E-PLAME	1111111	1.12135+00	1,1147E+30	1.0958E+00	1.0671E+00	1.0323E+00	9.9577E-01	9.6229E-01	9.3611E-01	9.2063E-01	9.1796E-01	9.2865E-01	9.5159E-01	9.8403E-01	1.0217E+00	1.0594E+00	-	1.1110 +00	1.1147E+00	1.0994E+00		1.01565+00		8.9976E-01			8.3379E-01	8.7061E-01	9.36416-01	1.02176+00		1.1879E+00
	ANGLE	1 1 1	o. 0	5.0	4.0	0.9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

の名かは、それのなどので、これではないが、これのないが、これには、これのないから

NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.3388E+00	1.3552E+00	1.3657E+00	1.3734E+00	1.3837E+00	1.4051E+00	1.4500E+00	1.5330E+00	1.6672E+00	1.8572E+00	2.09116+00	2.3357E+00	2.5384E+00	2.6416E+00	2.6095E+00	2.4651E+00	2.3277E+00	2.4383E+00	3.1587E+00	4.9337E+00	8.2139E+00	1.3350E+01	2.0477E+01	2.9421E+01	3.9653E+01	5.0317E+01	6.0327E+01	6.8536E+01	7.3929E+01	7.5810E+01	
NORMALIZED (E-PLANE		6.1258E-01	2.7758E-01	1.70546-01	3.6050E-01	8.30a8E-01	1.4756E+00	2.1240E+00	2.5884E+00	2.7222E+00	2.4690E+00	1.8872E+00	1.1414E+00	4.6348E-01	9.5625E-02	2.3759E-01	1.0156E+00	2.4852E+00	4.6642E+00	7.58115+00	1.1313E+01	1.5992E+01	2.1763E+01	2.8707E+01	3.6741E+01	4.5545E+01	5.4531E+01	6.2897E+01	6.9742E+01	7.4241E+01	7.5810E+01	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CROSS SECTION H-PLANE	1111111	1.0057E+00	1.0180E+00	1.0321E+00	1.0454E+00	1.0551E+00	1.0592E+00	1.0572E+00	1.0497E+00	1.0391E+00	1.0288E+00	1.0224E+00	1.0230E+00	1.0320E+00	1.0486E+00	1.0703E+00	1.0927E+00	1.1114E+00	1.1228E+00	1.1254E+00	1.1202E+00	1.1110E+00	1.1031E+00	1.1018E+00	1.1111E+00	1.1325E+00	1.1647E+00	1.2037E+00	1.2447E+00	1.2828E+00	1.3147E+00	
NORMALIZED C E-PLANE		1.1427E+00	1.2118E+00	1.2409E+00	1.2184E+00	1.1437E+00	1.0287E+00	8.9716E-01	7.7970E-01	7.0755E-01	7.0418E-01	7.7797E-01	9.1781E-01	1.0932E+00	1.2601E+00	1.3710E+00	1.3881E+00	1.2958E+00	1.1084E+00	8.6963E-01	6.4470E-01	5.0298E-01	4.9778E-01	6.4772E-01	9.2616E-01	1.2634E+00	1.5627E+00	1.7275E+00	1,6922E+00	1.4472E+00	1.0494E+00	
ANGLE	111111	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION H-PLANE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.1926E+00	1.1902F+00	1.18335+00	1.1720E+00	1.1569E+00	1.1383E+00	1.1172E+00	1.0944E+00	1.0709E+00	1.0478E+00	1.0264E+00	1,0076E+00	9.9262E-01	9.8211E-01	9.7659E-01	9.76095-01	9.8022E-01	9.8838E-01	9.9837E-01	1.0095E+00	1.0198E+00	1.0276E+00	1.0317E+00	1.0316E+00	1.0274E+00	1.0200E+00	1.0110E+00	1.0023E+00	9.9616E-01	9.9420E-01	9.9741E-01
NORWALIZED C	1 1 1 1	1.1926E+00	1.1854E+00	1.16436+00	1.1312E+00	1.0887E+00	1.0402E+00	9.8955E-01	9.4092E-01	8.9841E-01	8.6588E-01	8.46685-01	8.4327E-01	8.56875-01	8.8698E-01	9.3109E-01	9.84536-01	1.0407£+00	1.09175+00	1.1295E+00	1.1469E+00	1.1397E+00	1.10746+00	1.05395+00	9.87835-01	9.2130E-01	8.6768E-01	8.3949E-01	8.4533E-01	8.87525-01	9.60716-01	1.0520E+00
ANGLE		0.0	0.0	4	9	0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	0.04	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 8.6

		0.1000000000000000000000000000000000000		O COST I AMOUNT	MOTEOR CONTRACT		NOOM 1750	MOTITION COMES SECTION
ANGLE	NUKMAL: 25U E-PLANE	CONMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
						!!!		
0.0	1.08545+00	1.0854E+00	62.0	9.75716-01	9.9841E-01	122.0	9.23435-01	1.3360E+00
2.0	1.03416+00	1,08535+00	64.0	1.0751E+00	1.0035E+00	124.0	4.828° E-01	1.3615E+00
9	1.0802E+00	1.0849E+00	99	1.1654E+00	1.0137E+00	126.0	1.9916E-01	1.3791E+00
0.9	1.0733€ +00	1.0840E+00	68.0	1.2229E+00	1.0272E+00	128.0	1.95776-01	1.3903E+00
0.6	1.06285+00	1.0823E+00	0.07	1.2296E+00	1.0413E+00	130.0	5.1419E-01	1.3986E+00
10.0	1.0482E+00	1.0794E+00	72.0	1.1777E+00	1.0530E+00	132.0	1.09'4PE+00	1.4109E+00
12.0	1.0291E+00	1.0749E+00	74.0	1.0738E+00	1.0598E+00	134.0	1.7949E+00	1.4391E+00
14.0	1.00525+00	1.0686E+00	76.0	9.3908E-01	1.0603E+00	136.0	2.4127E+00	1.4998E+00
16.0	9.7739E-01	1.0602E+00	78.0	8,0595E-01	1.0546E+00	138.0	2.7485E+00	1.6108E+00
18.0	9.47156-01	1,0439E+00	80.0	7.1065E-01	1.0447E+00	140.0	2.68NFE+00	1.7847E+00
20.0	9.17285-01	1.0379E+00	82.0	6.8383E-01	1.0341E+00	142.0	2.23:10E+00	2.0185E+00
22.0	8.9159E-01	1.02.18E+00	84.0	7.4106E-01	1.0266E+00	144.0	1.5118E+00	2.2855E+00
24.0	8.7447E-01	1.0114E+00	86.0	8.7602E-01	1.0258E+00	146.0	7.47.11E-01	2.5331E+00
26.0	8.7017E-01	9.9890E-01	88.0	1.0591E+00	1.0336E+00	148.0	2.0603E-01	2.6939E+00
28.0	8.8188E-01	9.8826E-01	0.06	1.2428E+00	1.0497E+00	150.0	1.29146-01	2.7119E+00
30.0	9.1078E-01	9.8060E-01	92.0	1.3731E+00	1.0715E+00	152.0	6.89955-01	2.5832E+00
32.0	9.5527E-01	9.7677E-01	94.0	1.4049E+00	1.0947E+00	154.0	1.9797E+00	2.4017E+00
34.0	1.0107E+00	9.7721E-01	96.0	1.3174E+00	1.1145E+00	156.0	4.03H0E+00	2.3960E+00
36.0	1.0697E+00	9.8188E-01	98.0	1.1236E+00	1.1269E+00	158.0	6.9014E+00	2.9382E+00
38.0	1.1228E+00	9.9016E-01	100.0	8.7163E-01	1.1303E+00	160.0	1.0651E+01	4.5121E+00
40.0	1.1606E+00	1.0009E+00	102.0	6.3413E-01	1.1258E+00	162.0	1.5427E+01	7.6333E+00
42.0	1.1748E+00	1.0125E+00	104.0	4.8876E-01	1.1174E+00	164.0	2.13º5E+01	1.2731E+01
44.0	1.1607E+00	1.0231E+00	106.0	4.9389E-01	1.1107E+00	166.0	2.865BE+01	2.0011E+01
46.0	1.1183E+00	1.0312E+00	108.0	6.6692E-01	1.1110E+00	168.0	3.7151E+01	2.9341E+01
48.0	1.0532E+00	1.0353E+00	110.0	9.7304E-01	1.1225E+00	170.0	4.6546E+01	4.0186E+01
50.0	9.7612E-01	1.0348E+00	112.0	1.3295E+00	1.1462E+00	172.0	5.6214E+01	5.1623E+01
52.0	9.0153E-01	1.0300E+00	114.0	1.6268E+00	1.1805E+00	174.0	6.5274E+01	6.2456E+01
54.0	8.4504E-01	1.0220E+00	116.0	1.7617E+00	1.2212E+00	176.0	7.2725E+01	7.1397E+01
56.0	8.2015E-01	1.0126E+00	118.0	1.6725E+00	1.2635E+00	178.0	7.7639E+01	7.7295E+01
58.0	8.3504E-01	1.0042E+00	120.0	1.3660E+00	1.3028E+00	180.0	7.9356E+01	7.9356E+01
90.09	8.8989£-01	9.9887E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

CARACTER STREET, STREE

KA= 8.8

NORMALIZED CROSS SECTION E-PLANE H-PLANE		-	5E-01 1.3607E+00	- -	_	-	5E-01 1.4249E+00	BE+00 1.4406E+00	-	_	5E+00 1.7171E+00	-	5E+00 2.2201E+00	C	BE-01 2.7250E+00	DE-01 2.8027E+00			••	~	4	_	<u>-</u>	_	_	-	5E+01 5.2890E+01	3E+01 6.4587E+01	_	9E+01 8.0741E+01	4E+01 8.2994E+01
NORMALIZE ANGLE E-PLANE		122.0 1.2449E+00	124.0 7.6565E-01	126.0 3.45PBE-0		N	132.0 7.42856-01	134.0 1.424BE+00	136.0 2.14165+00	•••		142.0 2.5269E+00	_	146.0 1.0769E+00	148.0 3.9258E-01	150.0 1.0630E-01	•				٠.			166.0 2.8533E+0	••	•	172.0 5.7875E+0	174.0 6.766BE+0	176.0 7.5764E+0	178.0 8.1119E+0	180.0 8.2994E+01
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1 1 4 1 1 1 1 1	1.0026E+00	9.9922E-01	1.0015E+00	1.0095E+00	1.0220E+00	1.0366E+00	1.0501E+00	1.0593E+00	1.0622E+00	1.0585E+00	1.0497E+00	1.0391E+00	1.0311E+00	1.0294E+00	1.0365E+00	1.0525E+00	1.0747E+00	1.0986£+00	1.1192E+00	1.1322E+00	1.1361E+00	1.1321E+00	1.1245E+00	1.1192E+00	1.1218E+00	1.1359E+00	1.1623E+00	1.1989£+00	1.2415E+00	1.2853£+00
NORMALIZED (E-PLANE		8.3593E-01	9.1183E-01	1.01516+00	1,1224E+00	1.2063E+00	1,2420E+00	1.2144E+00	1.1239E+00	9.8882E-01	8.4250E-01	7.2619E-01	6.7774E-01	7.1980E-01	8.5056E-01	1.0408E+00	1.2387E+00	1.3836E+00	1,4233E+00	1.3331E+00	1,1270E+00	8.5936E-01	6.1205E-01	4.7090E-01	4.9718E-01	7.0317E-01	1.0413E+00	1.4127E+00	1.6946E+00	1.7806E+00	1.6204E+00
ANGLE	*	62.0	64.0	0.99	0.89	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0
NORMAL1ZED CROSS SECTION E-PLA™E H-PLANE	1	9.1325E-01	9.15335-01	9.2143E-01	9.3112E-01	9.4371E-01	9.5830E-01	9.7380E-01	9.8901E-01	1.0027E+00	1.0139E+00	1.0216E+00	1.0254E+00	1.0252E+00	1.0213E+00	1.0147E+00	1.0064E+00	9.98146-01	9.9126E-01	9.87135-01	9.8667E-01	9.9017E-01	9.9727E-01	1.0069E+00	1.0174E+00	1.0270E+00	1.0338E+00	1.0365E+00	1.0346E+00	1.0285E+00	1.0197E+00
NORMAL1ZED C		9.1325E-01	9.1870E-01	9.34495-01	9.58875-01	9.8903E-01	1.0212E+00	1.05115+00	1.0741E+00	1.0863E+00	1.0851E+00	1.0698E+00	1.0420E+00	1.0060E+00	9.6764E-01	9.3415E-01	9.1248E-01	9.08095-01	9.2366E-01	9.5829E-01	1.0071E+00	1.0620E+00	1.1122E+00	1.1471E+00	1.1573E+00	1.1377E+00	1.0887E+00	1.0173E+00	9.3623E-01	8.6226E-01	8.12756-01
ANGLE		0.0	9.0	0.4	6.9	9.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

Soon massed through thoses,

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 9.0

S SECTION H-PLANE		.309BE+00	.3523E+00	.3885E+00	.4160E+00	.4337E+00	.4431E+00	.4514E+00	.4739E+00	.5340E+00	.6576E+00	.8624E+00	2.1427E+00	2.4578E+00	2.7321E+00	2.8758E+00	2.8285E+00	2.6204E+00	2.4335E+00	2.6387E+00	3.7836E+00	6.5144E+00	.1434E+01	.8924E+01	2.8967E+01	1.103BE+01	5.4092E+01	6.6688E+01	7.7223E+01	8.4232E+01	8.6691E+01	
CROSS		-	-	-	-	-	-	-	-	=	-	-	~		~		 	~	~	~	9.7	9	-	=	2.	•	Š	Š		•	-	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.52736+00	1.0831E+00	5.8626E-01	2.2175E-01	1.4956E-01	4.4300E-01	1.0523E+00	1.8100E+00	2.48056+00	2.83876+00	2.7507E+00	2.282E+00	1.4351E+00	6.4453E-01	1.650EE-01	2.64016-01	1.12876+00	2.8607E+00	5.53196+00	9.24095+00	1.4150E+01	2.0464E+01	2.83416+01	3.77596+01	4.83316+01	5.94976+01	7.0054E+01	7.8826E+01	8.4649E+01	8.66916+01	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.0154E+00	1.0068E+00	1.0014E+00	1.0013E+00	1.0074E+00	1.0189E+00	1.0337E+00	1.0484E+00	1.0597E+00	1.0647E+00	1.0628E+00	1.0550E+00	1.0447E+00	1.0363E+00	1.0342E+00	1.0410E+00	1.0571E+00	1.0798E+00	1.1043E+00	1.1253E+00	1.1385E+00	1.1424E+00	1.1387E+00	1.1320E+00	1.1285E+00	1.1337E+00	1.1510E+00	1.1805E+00	1.2196E+00	1.2643E+00	
NORMALIZED C E-PLANE		8.0176E-01	8.1228E-01	8.7265E-01	9.7272E-01	1,0900E+00	1.1940E+00	1,2539E+00	1.2475E+00	1.1691E+00	1.0337E+00	8.7563E-01	7.4062E-01	6.7334E-01	7.0292E-01	8.3128E-01	1.0286E+00	1.2384E+00	1.3929E+00	1,4337E+00	1.3337E+00	1.1106E+00	8.2706E-01	5.7544E-01	4.4888E-01	5.0839E-01	7.5648E-01	1.1282E+00	1.5060E+00	1.7553E+00	1.7725E+00	
ANGLE	-	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	90.0	82.0	84.0	96.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION E H-PLANE		8.452:E-01	8.4725E-01	8.53446-01	8.6353E-01	8.7726E-01	8.9417E-01	9.1358E-01	9.3494E-01	9.5620E-01	9.772JE-01	9.9629E-01	1.0122E+00	1.02-10E+00	1.0310E+00	1.0330E+00	1.0303E+00	1.0240E+00	1.01538+00	1.0059E+00	9.97705-01	9.9215E-01	9.90436-01	9.9296E-01	9.9936E-01	1.0085E+00	1.0185E+00	1.0274E+00	1.0332E+00	1.0347E+00	1.0316E+00	1.0245E+00
NORMALIZED C E-PLANE		8.4521E-01	ī	ŧ	9.0017E-01	•	-1	+		1.1219E+00	+	•		•	1.0817E+00	•		υ,		ı	8.9001E-01		ı	+	+				•	- 1	9.0777E-01	8.3812E-01
ANGLE	1	0	5.0	0.4	9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

NORMALIZED CROSS SECTION	H-PLANE		1.2893E+00	1.3371E+00	1.3816E+00	1.4192E+00	1.4464E+00	1.4617E+00	1.4684E+00	1.4787E+00	1.5156E+00	1.6095E+00	1.7879E+00	2.0583E+00	2.3914E+00	2.7148E+00	2.9274E+00	2.9417E+00	2.7512E+00	2.5042E+00	2.5583E+00	3.4829E+00	5.9865E+00	1.0767E+01	1.8306E+01	2.8665E+01	4.1339E+01	5.5227E+01	6.8759E+01	8.0152E+01	8.7766E+01	9.04436+01	
NORMALIZED C	E-PLANE	11111111	1.7322E+00	1.3918E+00	8.8804E-01	4.0333E-01	1.36826-01	2.29526-01	7.0354E-01	1.4415E+00	2.2165E+00	2.7678E+00	2.8954E+00	2.5376E+00	1.8037E+00	9.48546-01	2.9972E-01	1.7136E-01	8.0067E-01	2.33516+00	4.8720E+00	8.5235E+00	1.3465E+01	1.9923E+01	2.8085E+01	3.7955€+01	4.9202E+01	6.1073E+01	7.2426E+01	8.1908E+01	8.8224E+01	9.04436+01	
	ANGLE	11111	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CROSS SECTION	H-PLANE		1.0296E+00	1.0216E+00	1.0127E+00	1.0059E+00	1.0038E+00	1.0079E+00	1.0182E+00	1.0327E+00	1.0482E+00	1.06095+00	1.0676E+00	1.0670E+00	1.0600E+00	1.0499E+00	1.0414E+00	1.0391E+00	1.0461E+00	1.0626E+00	1.0859£+00	1.1110E+00	1.1321E+00	1.1450E+00	1.1485E+00	1.1449E+00	1.1394E+00	1.1382E+00	1.1466E+00	1.1675E+00	1.2003E+00	1.2423E+00	
NORMALIZED (E-PLANE		8.8047E-01	8.1904E-01	8.0355E-01	8.4365E-01	9.3420E-01	1.0545E+00	1.1723E+00	1.2517E+00	1.2638E+00	1.1968E+00	1.0622E+00	8.9487E-01	7.4472E-01	6.6275E-01	6.8402E-01	8.1341E-01	1.0196E+00	1.2405E+00	1.4009E+00	1.4369E+00	1.3211E+00	1.0771E+00	7.7874E-01	5.2983E-01	4.2959E-01	5.3496E-01	8.3316E-01	1.2370E+00	1.6084E+00	1.8044E+00	
	ANGLE	11111	62.0	64.0	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION	H-PLANE		9.3995E-01	9.3978E-01	9.3940E-01	9.3918E-01	9.3965E-01	9.4144E-01	9.4512E-01	9.5108E-01	9.5946E-01	9.7007E-01	9.8234E-01	9.95376-01	1.0080E+00	1.0191E+00	1.02746+00	1.0320E+00	1.0325E+00	1.0290E+00	1.0220E+00	1.0130E+00	1.0035E+00	9.95446-01	9.9034E-01	9.8938E-01	9.929CE-01	1.0004E+00	1.0103E+00	1.0208E+00	1.0294E+00	1.0342E+30	1.0343E+00
NORMALIZED C			9.3995E-01	9.4028E-01	9.4181E-01	9,45945-01	9.5449E-01	9.69048-01	9.90275-01	1.0175E+00				1.1244[+00	1.1291E+00		1.0933E+00	1.0484E+00	9.9703E-01	9.4357E-01	B. 9664E-01	8.65235-01	8.5669E-01	8.7495E-01	9.1900E-01	9.8219E-01		1.1155E+00	1.1553E+00	1.1602E+00	1.12585+00	1.0568E+00	9.6777E-01
	ANGLE	1 1 1	0.0	5.0	4.0	0.9	9.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 9.4

D CROS	CROSS SECTION H-PLANE 1.2674E+00 1.3681E+00 1.4149E+00 1.4149E+00 1.4149E+00 1.4149E+00 1.4149E+00 1.5751E+00 1.5751E+00 2.6754E+00 2.6754E+00 2.6754E+00 2.6754E+00 2.6754E+00 3.0222E+00 3.0222E+00 1.7652E+01 1.7652E+01 1.7652E+01 1.7652E+01 1.7652E+01 1.7652E+01 1.7652E+01 1.7652E+01	1.6495E+00 1.6495E+00 1.6495E+00 1.2103E+00 1.2103E+00 1.2103E+00 1.2105E+00 1.2105E+00 1.2105E+00 2.3919E+00 1.0711E+00 2.9517E+00 2.9517E+00 1.2873E+00 1.2873E+00 1.2875	A L L L L L L L L L L L L L L L L L L L	### Company of the co	METANEL DE COMMALIZATION NORMALIZATION NORMALIZATION NO PER 1 2 1 5 6 7 6 7 7 7 4 2 9 1 6 5 1 6 7 7 7 4 2 9 1 6 7 7 7 8 7 9 1 6 7 9 7 9 1 7 9 9 1 6 7 9 9 1 7 9 9 1 6 7 9 9 1 7 9 9 1 6 7 9 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	A MACKET STATE STA
1.83346 + 00 1.643246 + 00 1.24036 + 00 1.24036 + 00 1.24036 + 00 1.34036 + 00 1.34	W 5-	6.2607E+01 7.4797E+01	172.0	1.1471E+00 1.1488E+00		4.2246E-01 5.8721E-01
1.83246+00 1.84956+00 1.84956+00 1.84956+00 1.84956+00 1.8496+00 1.8496+00 1.8496+00 1.8496+00 1.8496+00 1.8496+00 1.8614	2.0	7.4797E+01	174.0	1.1488E+00		5.8721E-01
1.83346+00 1.64326+00 1.24036+00 1.24036+00 1.24036+00 1.24036+00 1.89376+00 1.89376+00 2.98376+00 2.98376+00 2.16486+00 2.16486+00 2.16486+00 2.16486+00 1.2836+00 1.56316+00 1.56316+00 1.56316+00 1.56316+00 1.56316+00 1.56316+00 1.56316+00 1.56316+00 1.27516+00 1	9.311	8.5032E+01	176.0	1.1610€+00		9.4160E-01
1.83246+00 1.64955+00 1.64955+00 1.64955+00 1.24955+00 1.249576+00 1.249676+00 1.249676+00 1.249676+00 1.249676+00 1.24966+00 1.24966+00 1.24966+00 1.24966+00 1.24966+00 1.24966+00 1.24966+00 1.2496+00 1.24	8.311964	8.5032E+01	176.0	1.1610E+00		9.4160E-01
1.83246 + 00 1.64556 + 00 1.645	8. 51 18E+0	8.503ZE+01	0.0	1.16105+00		W. 4100E-01
1.83246 + 00 1 1 64956 + 00 1 64956 + 0		W.5032E+01	176.0	1.16105+00		9.4160E-01
1.83246+00 1.64036+00 1.64036+00 1.24036+00 1.24036+00 1.24036+00 1.24036+00 1.001716+00 1	8.3119E+01	8.5032E+01	176.0	1.1610E+00		9.4160E-01
1.83346+00 1.24036+00 1.24036+00 1.24036+00 1.24036+00 1.89776+00 1.89776+00 1.89776+00 1.8676+00 1.8676+00 1.2876+00 1.56716+00 1.5	0.00					
1.83246+00 1.84956+00 1.84956+00 1.84956+00 1.84956+00 1.8496+00 1.8496+00 1.8496+00 1.8496+00 1.8496+00 1.8496+00 1.8614	7.08195+01	7.4797E+01	174.0	1.1488E+00		5.8721E-01
1.83346 + 00 1.64376 + 00 1.24036 + 00 1.	9.6313E+V	6.26078+01	172.0	1.14716+00		4.22466-01
1.83246+00 1.84956+00 1.84956+00 1.84956+00 1.84956+00 1.84956+00 1.8496+00	011111111111111111111111111111111111111	0110000		20110		1.05.130
1.83346+00 1.643956+00 1.24036+00 1.24036+00 1.24036+00 1.24036+00 1.89776+00 1.89776+00 1.89776+00 1.8666+00 2.7666+00 1.28766+00 1.28766+00 1.56716+00 1.57716+00 1	C+10011	4 005 6 7 0 0		00.000		. 0.3456.04
1.83246+00 1.84056+00 1.840366+00 1.240366+00 1.240366-01 1.07116+00 1.07116+00 1.08776+00 1.89776+00 1.89776+00 1.28786+00 1.28786+00 1.28786+00 1.28786+00 1.28786+00 1.28786+00 1.28786+00 1.28786+00 1.28786+00 1.28786+00 1.28786+00 1.28786+00 2.48045+00 1.28786+00 2.480456+00 2.480456+00 2.780456+00 2.780456+00	2.8301E+0	3.8074E+01	168.0	1.1544E+00		7.1991E-01
1.83246+00 1.24036+00 1.24036+00 1.24036+00 1.24036+00 1.24036+00 1.89776+00 1.89776+00 1.89776+00 1.89776+00 1.860676+00 1.2866+00 1.2876+00 1.56716-01 1.56716-01 1.56716-01 1.56716-01 1.56716-01 1.56716-01 1.56716-01 1.56716-01 1.56716-01	1.7652E+01	2.7756E+01	166.0	1.1514E+00		1.0317E+00
1.83246+00 1.24036+00 1.24036+00 1.24036+00 1.24036+00 1.24036+01 1.89376+01 1.89376+00 1.89376+00 1.86376+00 1.56716+00 1.56716+00 1.56716+01 1.56716+01 1.56716+01 1.56716+01 1.56716+01 1.56716+01 1.56716+01 1.56716+01 1.56716+01 1.56716+01 1.56716+01 1.56716+01 1.56716+01 1.56716+01	1.0098E+01	1.9327E+01	164.0	1.1391E+00		1.3014E+00
1.83246+00 1.64956+00 1.64956+00 1.24956+00 1.24956+00 1.24956-01 1.07116+00 1.08776+00 1.89776+00 1.89776+00 1.89776+00 1.89776+00 1.28786+00	5.4891E+00	1.27516+01	162.0	1.1182E+00		1.4408E+00
1.83266+00 1.21036+00 1.21036+00 1.21036+00 1.21036+00 1.21666-01 1.07116+00 1.89376+00 2.99576+00 2.99576+00 1.28766+00 2.9576+00 1.28766+00 2.9576+00 1.28766+00 2.9576+00 2.9	3.2288E+0(7.8045E+00	160.0	1.0928E+00		1.4163E+00
1.83246+00 1.240356+00 1.240356+00 1.24036+00 1.24036+00 1.24666-01 1.89376+00 2.995176+00 2.995176+00 2.9951400 2.16186+00 2.16186+00 1.56716+00 1.56716+00 1.56716+00 1.56716+00 1.56716+00 1.56716+00 1.56716+00	2.5227E+00	4.2385E+00	158.0	1.0686E+00		1.2537E+00
1.83246+00 1.64955+00 1.64955+00 1.24955+00 1.24956+00 1.2496-01 1.8496-01 1.8496-01 1.8496-01 1.8496-00 2.95176+00 2.951	2.6035E+00	1.8622E+00	156.0	1.0512E+00		1.0215E+00
1.83246+00 1.24956+00 1.24956+00 1.24956+00 1.24956+00 1.24666+00 1.89376+00 1.89376+00 2.96576+00 2.96576+00 1.28766+00 1.28766+00 1.28766+00 1.28766+00 1.56716-01	2.8885E+00	5.4483E-01	154.0	1.043FE+00		8.0327E-01
1.83246+00 1.64956+00 1.64956+00 1.64956+00 1.239196+01 1.2166-01 1.07116+00 1.89376+00 1.89376+00 2.95177+00 2.95177+00 1.28766+00 1.28766+00 2.16168+00	3.0422E+00	1.5671E-01	152.0	1.0456E+00		6.6808E-01
1.83246+00 1.64356+00 1.24356+00 1.24356+00 1.24356+00 1.24356-01 1.2436-01 1.07176+00 1.0376+00 2.095176+00 2.16166+00 1.28786+00	2.9562E+00	5.0149E-01	150.0	1.0540E+00		6.5027E-01
1.83246+00 1.83246+00 1.840950+00 1.210950+00 1.210910+00 1.8716+00 1.89376+00 1.89376+00 2.96776+00 2.96776+00 2.96776+00 2.96776+00 2.96776+00 2.96776+00	2.6754E+00	1.2878E+00	148.0	1.0639E+00		7.4283E-01
1.8324E+00 1.6495E+00 1.6495E+00 1.23919E+01 1.2166E+01 1.0711E+00 1.8937E+00 1.8937E+00 2.9517E+00	2.3116E+00	2.1618E+00	146.0	1.0703E+00		9.0502E-01
1.83246+00 1.64956+00 1.64956+00 1.2136+00 1.2136+00 1.2136+00 1.2136-01 1.2166-01 1.07116+00 1.69376+00 2.69376+00	1.9722E+00	2.7896E+00	144.0	1.0699E+00		1.0794E+00
1.83246+00 1.83246+00 1.83246+00 1.21036+00 1.21036+00 1.21036+01 1.21666-01 1.0716+00 1.89376+00	1.7218E+00	2.9517E+00	142.0	1.0619E+00		1.2116E+00
1.8324F+00 1.6495E+00 1.6326E+00 1.2350E+01 1.2166E-01 1.2166E-01 1.0711E+00	1.5751E+00	2.6067E+00	140.0	1.0482E+00		1.2667E+00
1.8324E+00 1.6495E+00 1.6495E+00 1.23919E+01 1.216E=01 1.216E=01 1.0711E+00	1.5106E+00	1.8937E+00	138.0	1.0323E+00		1.2366E+00
1.83246+00 1.83246+00 1.64956+00 1.21036+00 6.68276-01 1.219196-01 1.2166-01	1.4926E+00	1.0711E+00	136.0	1.0183E+00		1.1395E+00
1.83245+00 1.6495E+00 1.2103E+00 6.6827E-01 1.2166E-01	1.4885E+00	4.1549E-01	134.0	1.0094E+00		1.0108E+00
1.8324F+00 1.6495E+00 1.2103E+00 1.2103E+00 1.2103E+01 2.3919E-01	1.4778E+00	1.2166E-01	132.0	1.0071E+00		8.9054E-01
1.8324E+00 1 1.8495E+00 1 1.2103E+00 1	1.4530E+00	2.3919E-01	130.0	1.0110E+00		8.1203E-01
1.8324E+00 1.6495E+00 1.2103E+00	1.4149E+00	6.6827E-01	128.0	1.0190E+00		7.9300E-01
1.8324E+00 1	1.3681E+00	1.21036+00	126.0	1.0279E+00		8.3295E-01
1.8324E+00 1	1.3174E+00	1.6495E+00	124.0	1.0347E+00		9.1567E-01
TO THE TOTAL	1.2674E+00	1.8324E+00	122.0	1.0372E+00		1.0155E+00
17 074 C-14 0 C-14	H-PLANE	E-PLANE	ANGLE	H-PLANE		E-PLANE

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 9.6

NORMALIZED CROSS SECTION E-PLANE H-PLANE	00730470	1 20505+00	1.3498E+00	1.4040E+00	1.4528E+00	1.4894E+00	1.5087E+00	1.5130E+00	1.5179E+00	1.5556E+00	1.6678€+00	1.8895E+00	2.230E+00	2.6164E+00	2.9615E+00	3.1262E+00	3.0267E+00	2.7266E+00	2.5297E+00	3.0229E+00	5.0272E+00	9.4370E+00	1.6970E+01	2.7882E+01	4.1743E+01	5.7357E+01	7.2879E+01	8.6135E+01	9.5074E+01	9.82316+01	
NORMALIZED (E-PLANE	001111111111111111111111111111111111111	1 91705+00	1.5071E+00	9.79.146-01	4.3977E-01	1.2550E-01	2.107°E-01	7.2631E-01	1.5343£+00	2.3635E+00	2.9127E+00	2.9653E+00	2.4884E+00	1.6446E+00	7.59545-01	2.1747E-01	3.62445-01	1.4446E+00	3.6332E+00	7.0833E+00	1.2005E+01	1.8674E+01	2.7353E+01	3.8112E+01	5.0640E+01	6.4106E+01	7.7176E+01	8.8213E+01	9.5620E+01	9.8231E+01	
ANGLE	1 0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE	100.0000	1.0550E+00	1.0379E+00	1.0324E+00	1.0238E+00	1.0150E+00	1.0097E+00	1.0105E+00	1.0183E+00	1.0319E+00	1.0482E+00	1.0627E+00	1.0717E+00	1.0728E+00	1.0669E+00	1.0573E+00	1.0493E+00	1.0480E+00	1.0569E+00	1.0757E+00	1.1009E+00	1.1266E+00	1.1470E+00	1.1584E+00	1.1609E+00	1.1581E+00	1.1561E+00	1.1613E+00	1.1776E+00	1.2066E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.12996+00	9.4248E-01	8.4487E-01	7.8461E-01	7.8455E-01	8.5140E-01	9.7109E-01	1.1102E+00	1.2242E+00	1.2713E+00	1.2270E+00	1.0958E+00	9.1390E-01	7.4090E-01	6.4123E-01	6.6096E-01	8.0756E-01	1.0413E+00	1.2835E+00	1.4419E+00	1.444E+00	1.2715E+00	9.7141E-01	6.5039E-01	4.3761E-01	4.3535E-01	6.7289E-01	1.0843E+00	1.5230E+00	
ANGLE	1 6	0.79	66.0	0.89	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.1594E+00	1.1555F+00	1,13746+00	1,1215E+00	1.1025E+00	1.0814E+00	1.0596E+00	1.0382E+00	1.0187E+00	1.0023E+00	9.8994E-01	9.8240E-01	9.7989E-01	9.8212E-01	9.8823E-01	9.9686E-01	1.0063E+00	1.0148E+00	1.0208E+00	1.0232E+00	1.0216E+00	1.0166E+00	1.0094E+00	1.0020E+00	9.9647E-01	9.9447E-01	9.96995-01	1.0039E+00	1.0138E+00	1.0246E+00
NORMALIZED (E-PLANE		1.1594E+00	1.131/2+00	1.0948F+00	1.05162+00	1.00435+00	9.57S0E-01	9.1735E-01	8.8725E-01	8.7138E-01	8.7225E-01	8.9052E-01	9.2455E-01	9.7011E-01	1.0205E+00	1.0674E+00	1.1020E+00	1.1168E+00	1.1075E+00	1.0747E+00	1.02416+00	9.6634E-01	9.1496E-01	8.8343E-01	8.81745-01	9.1334E-01	9.7329E-01	1.0483E+00	1.1193E+00	1.16596+00	1.1716E+00
ANGLE		0.0	, c		0.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

MOTIFICIAL BATTACONOM MODE STREET IN STREET

BISTATIC SCATTERING FROM CONDUCTING SPHERE

O CROS	_	•	-	_	-	_	.1108E-01 1.4453E+00	-	-	-	_	2.0539E+00 1.5504E+00	_	3.0587E+00 1.8143E+00	2.7658E+00 2.1300E+00		_	3.4837E-01 3.1895E+00	2.5372E-01 3.1597E+00			_	_	.	2.6881E+01 1.6260E+01	3.8075E+01 2.7402E+01	5.1258E+01 4.1842E+01	6.5563E+01 5.8345E+01	_	œ	a	1.0226E+02 1.0226E+02
_			_	_	_	128.0 1.3		••	_	•	138.0		142.0 2.	144.0 3.0			_			-		160.0 6.	-	-	••			172.0 6.9	•		-	180.0 1.(
CROSS SECTION	H-PLANE	********	1.0209E+00	1.0309E+00	1.0376E+00	1.0391E+00	1.03516+00	1.0271E+00	1.0182E+00	1.0120E+00	1.0117E+00	1.0188E+00	1.0323E+00	1.0490E+00	1.0643E+00	1.0740E+00	1.0756E+00	1.0700£+00	1.0607E+00	1 0533E+00	1.0534E+00	1.0639E+00	1.0844E+00	1.1107E+00	1.1305E+00	1.1560E+00	1.1662E+00	1.1681E+00	1.1663E+00	1.1670E+00	1.1760E+00	1.1969E+00
٥	E-PLANE		1.1688E+00	1.1485E+00	1.0784E+00	9.7469E-01	8.6657E-01	7.8896E-01	7.7143E-01	8.2723E-01	9.4613E-01	1.0943E+00	1.222BE+00	1.2831E+00	1.2448E+00	1.1103E+00	9.1836E-01	7.3525E-01	6.3278E-01	6.6101E-01	8.2509E-01	1.0765E+00	1.3248E+00	1.468EE+00	1,4367E+00	1,2207E+00	8.8934E-01	5.6962E-01	4.0071E-01	4.7590E-01	7.95796-01	1.2553E+00
	ANGLE		62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0
NORMALIZED CROSS SECTION	H-PLANE		1.0735E+00	1.0732E+00	1.0724E+00	1.070EE+00	1.06785+00	1.0635E+00	1.0574E+00	1.0493E+00	1,0395E+00	1,0282E+00	1.0162E+00	1_004E+00	9.93945-01	9.8603E-01	9.8160E-01	9.8120E-01	9.8484E-0)	9.9188E-01	1.0011E+00	1.0108E+00	1.0191E+00	1.0245E+00	1.0260E+00	1.0233E+00	1.0172E+00	1.0094E+00	1.0021E+00	9.9747E-01	9.9711E-01	1,0016E+00
NORMALIZED C	E-PLANE		1.0735E+00	1.0718E+00	1 0667F+00	1 05795+00	1 0440F+00	1.0275 +00	1.0056E+00	9 BOO3E - 01	9.5254F-01	0 2659F-01	9 0609E-01	9 957FF-01	8.9964E-01	9.1993E-01	9. 558GE - 01	1.00335+00	1.0546E+00	1 1002E+00	t . 1300E+00	1.1362E+00	1.1152E+00	1.0692E+00	1.0056E+00	9 4095E-01	8.8788E-01	A 6182E-01	8.71748-01	9.1802E-01	9.91035-01	1.0724E+00
	ANGLE		0	0	4		, c	9	12.0	4	9	, e	20.0	200	0.45	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	0.01	52.0	54.0	56.0	58.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=10.0

S SECTION	H-PLANE		.2187E+00	.2571E+00	.3073E+00	.3668E+00	.4310E+00	.4914E+00	.5370E+00	.5586E+00	.5580E+00	.5578E+00	.6029E+00	.7496E+00	2.0368E+00	2.4507E+00	2.9002E+00	3.2288E+00	3.2811E+00	3.0186E+00	2.6553E+00	2.7544E+00	4.2207E+00	8.1481E+00	1.5524E+01	2.6860E+01	4.1859E+01	5.9258E+01	7.6924E+01	9.2237E+01	.0266E+02	.0636E+02	
C CROS			-	_	1.8714E+00 1	1.5762E+00 1	1.0206E+00 1	4.3752E-01 1	1.0375E-01	_	8.1246E-01 1	1.70216+00 1	2.5657E+00 1	_			_	_	_			0	_	_	_	3.7969E+01 2	5.1808E+01 4	6.69705+01 5	8.19126+01 7		_	1.0636E+02 1	
	ANGLE	1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE		1.0067E+00	1.01725+00	1.0282E+00	1.0366E+00	1.0400E+00	1.0376E+00	1.0305E+00	1.0216E+00	1.0149E+00	1.0140E+00	1.0207E+00	1.0343E+00	1.0514E+00	1.0672E+00	1.0773E+00	1.0790E+00	1.0733E+00	1.0643E+00	1.0579E+00	1.0596E+00	1.0723E+00	1.0947E+00	1.1219E+00	1.1473E+00	1.1655E+00	1.1744E+00	1.1760E+00	1.1756E+00	1.1796E+00	1.1930£+00	
NURMALIZED CROSS SECTION	E-PLANE	1111111	1,11975+00	1.1719E+00	1.1724E+00	1,1154E+00	1.0132E+00	8.9565E-01	8.0180E-01	7.6780E-01	8.1315E-01	9.3096E-01	1.0865E+00	1.2259E+00	1.2941E+00	1,2559E+00	1.1133E+00	9.0952E-01	7.1871E-01	6.1970E-01	6.6440E-01	8.5207E-01	1.1218E+00	1.3697E+00	1.4874E+00	1.4082E+00	1.1428E+00	7.85616-01	4.8463E-01	3.8307E-01	5.5407E-01	9.5787E-01	
	ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	98.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION	E-PLANE H-PLANE		9.2923E-01	9.3136E-01	9.3755E-01	9.4725E-01	9.59558-01	9.73.9[-01	9.8715E-01	9.99786-01	1.010CE+03	1.0107E+00	1.01.5E+00	1.0186E+00	1.0143E+00	1.0079E+00	1.0006E+00	9.9428E-01	9.9028E-01	9.8955E-01	9.9253E-01	9.98658-01	1,0068E+00	1.0152E+00	1.0220E+00	1,0257E+00	1.02538+00	1.0209E+00	1.0137E+00	1.0058E+00	9.9952E-01	9.9699E-01	9.9945E-01
NORMALIZED C	E-PLANE	1 1 1 1 1 1 1	9.29238-01	•	9.50935-01	9.7513E-01	•			+	•	•	1.02791.00	9.95277-01	9.6293	9.3855[-01	9.29765-01	9.37465-01	9.6455E-01	1.0054E+00	1,0516E+00	1.0920E+00	1.1158E+00	1.1147E+00	1.08562+00	1.0324E+00	9.65765-01	9.0170E-01	8.57765-01	8.4835E-01	8.79985-01	9.4802E-01	1.0362E+00
	ANGLE		o. o	9.0	0.4	9 .0	60	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	96.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=10.2

NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.2121E+00	1.2430E+00	1.2872E+00	1.3443E+00	1.4112E+00	1.4806E+00	1.5404E+00	1.5768E+00	1.5837E+00	1.5752E+00	1.5927E+00	1.6983E+00	1.9482E+00	2.3519E+00	2.8360E+00	3.2427E+00	3.3863E+00	3.1747E+00	2.764BE+00		3.8821E+00	7.5309E+00	1.4770€+01	2.6260E+01	4.1797E+0	6.0099E+01	7.8887£+01	O	1.0652E+02	1.1051E+02	
NORMALIZED E-PLANE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.1506E+00	1.63ºcE+00	1.8977E+00	1.7917E+00	1.3338E+00	7.08955-01	2.0630E-01	9.8101E-02	5.0712E-01	1.3352E+00	2.28665+00	2.9853E+00	3.13-8E+00	2.66378+00	1.750-JE+00	7.890.1E-01	2.5241E-01	5.6605E-01	2.05%SE+00	4.9979E+00	9.6779E+00	1.6472E+01	2.5772E+01	3.7791E+01	5.2234E+01	6.8319E+01	8.42486+01	9.79326+01	1.0722E+02	1.1051E+02	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE		9.9921E-01	1.0053E+00	1.0154E+00	1.0270E+00	1.0367E+00	1.0417E+00	1.0405E+00	1.0341E+00	1.0253E+00	1.0183E+00	1.0170E+00	1.0235E+00	1.03736+00	1.0548E+00	1.0709E+00	1.0809E+00	1.0823E+00	1.0763E+00	1.0676E+00	1.0625E+00	1.0665E+00	1.0817E+00	1.1061E+00	1.1339E+00	1.1585E+00	1.1751E+00	1.1327E+00	1.1845E+00	1.1863E+00	1.1940E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	* * * * * * * * * *	1.0112E+00	1.1053E+00	1.1742E+00	1.1916E+00	1.1453E+00	1.0441£+00	9.1791E-01	8.0963E-01	7.6140E-01	7.9834E-01	9.1620E-01	1.0786E+00	1.2264E+00	1.2985E+00	1.2559E+00	1.1017E+00	8.8594E-01	6.9149E-01	6.0370E-01	6.7363E-01	8.9062E-01	1.17785+00	1.4168E+00	1.4948E+00	1.3570E+00	1.0400E+00	6.6844E-01	4.0953E-01	4.0080E-01	6.8134E-01	
ANGLE		62.0	64.0	0.99	0.89	20.0	72.0	74.0	0.92	78.0	80.0	82.0	84.0	96.0	88.0	0.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
IRMALIZED CROSS SECTION E-PLANE H-PLANE	1 1 1 1 1 1 1 1 1 1	8.6854E-01	8.7083E-01	8.77015-01	8.88585-01	9.0325E-01	9.2086E-01	9.4040E-01	9.6055E-01	9.8019E-01	9.9761E-C1	1.0115E+00	1.0211E+00	1,0258E+00	1.0255E+00	1.0212E+00	1.0140E+00	1.0058E+00	9.98385-01	9.93.11E-01	9.9202E-01	9.94538-01	1.0004E+00	1.00H2E+00	1.0150E+00	1.0219E+00	1.0242E+00	1.0223E+00	1.0168E+00	1.0094E+00	1.0024E+00	9.9840E-01
NORMALIZED C E-PLANE	111111	8.6854E-01	1	- 1	- 1	9.68755-01	•	•			1.1313E+00	1,1295E+00	1.0915E+00	1.7483E+00	9.39761-01	9.53172-01	9.18251-01	9.02455-01	9.09796-01	9.3948E-01	9.8559E-01	1.3376E+00	1.0825E+00	1.10745 +00	1.1033E+00	1.06825+00	1.0087E+00				8.6519E-01	9.2280E-01
ANG! E		0.0	2.0	0.4	0.9	0.8	10.0	12.0	0.7	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0. 09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=10.4

91044	NORMALIZED (ZED CROSS SECTION	T CNA	NORMALIZED CROSS SECTION	ROSS SECTION	a ISNA	NORMAL 12ED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
1000								
0.0	9.4500E-01	9.4500E-01	62.0	8.9889E-01	1.0016E+00	122.0	8.6599E-01	1.2107E+00
5.0	,	9.4502E-01	64.0	9.8247E-01	1.0008€+00	124.0	1.3934E+00	1.2338E+00
4.0		9.4523E-01	0.99	1.0820E+00	1.0055E+00	126.0	1.8154E+00	1.2706E+00
0.9	9.5585E-01	9.4602E-01	68.0	1.1637E+00	1.0150E+00	128.0	1.9167E+00	1.3223E+00
8.0		9.4793E-01	70.0	1.1956E+00	1.0267E+00	130.0	1.6147E+00	1.3882E+00
10.0		9.5152E-01	72.0	1,1596E+00	1.0372E+00	132.0	1.0185E+00	1.4633E+00
12.0	1.0106E+00	9.5722E-01	74.0	1.0607E+00	1.0433E+00	134.0	3.99196-01	1.5358£+00
14.0	+	9.65176-01	16.0	9.2825E-01	1.0431E+00	136.0	7.7054E-02	1.5888E+00
16.0	٠	9.7515E-01	78.0	8.08735-01	1.0372E+00	138.0	2.702BE-01	1.6089E+00
18.0	•	9.8653E-01	80.0	7.4996E-01	1.0284E+00	140.0	9.7835E-01	1.6000E+00
20.0	1.102SE+00	9,98316-01	82.0	7.8217E-01	1.0212E+00	142.0	1.9603E+00	1.5965E+00
22.0	+	1,0093E+00	84.0	9.0308E-01	1.0197E+00	144.0	2.8270E+00	1.6623E+03
24.0		1.0181E+00	86.0	1.0738E+00	1.0265E+00	146.0	3.2109E+00	1.8684E+00
26.0		1.0238E+00	88.0	1.2293E+00	1.0407E+00	148.0	2.9353E+00	2.2490E+00
28.0		1.0256E+00	90.06	1.3021E+00	1.0586E+00	150.0	2.1051E+00	2.7540E+00
30.0	9.6404E-01	1.0235E+00	92.0	1.2506E+00	1.0748E+00	152.0	1.08038+00	3.2315E+00
32.0		1.0179E+00	94.0	1.0813E+00	1.0843E+00	154.0	3.5407E-01	3.47216+00
34.0	8.9245E-01	1.0102E+00	0.96	8.5334E-01	1.0850£+00	156.0	4.0975E-01	3.3304E+00
36.0	8.85335-01	1.0020E+00	98.0	6.5998E-01	1.0787E+00	158.0	1.6390E+00	2.8992E+00
38.0	9.03795-01	9.9506E-01	100.0	5,9215E-01	1.0705E+00	160.0	4.35936+00	2.6699E+00
40.0	9.4598E-01	9.91116-01	102.0	6.9659E-01	1.06725+00	162.0	8.9017E+00	3.5904E+00
42.0	1.0037E+00	9.9109E-01	104.0	9.4775E-01	1.0740E+00	164.0	1.5678E+01	6.9407E+00
44.0	1.0636E+00	9.95106-01	106.0	1.2488E+00	1.0922E+00	166.0	2.5133E+01	1.4006E+01
46.0	1.1096E+00	1.0022E+00	108.0	1.4665E+00	1.1185E+00	168.0	3.7538E+01	2.5613E+01
48.0	•	1.0108E+00	110.0	1.48875+00	1.1466E+00	170.0	5.2683E+01	4.1667E+01
20.0	1.1099E+00	1.0185E+00	112.0	1,28116+00	1.1700E+00	172.0	6.9614E+01	6.0880E+01
52.0	1.0582E+00	1.0234E+00	114.0	9.1487E-01	1.1849E+00	174.0	8.6570E+01	8.0828E+01
54.0	9.85356-01	1.0241E+00	116.0	5.4811E-01	1.1915E+00	176.0	1.0123E+02	9.8388E+01
26.0	9.1227E-01	1.0206E+00	118.0	3.6094E-01	1.1941£+00	178.0	1.1121E+02	1.1046E+02
99.0	8.6278E-01	1.0140E+00	120.0	4.7083E-01	1.1987E+00	180.0	1.1476E+02	1.14786+02
0.09	8.5594E-01	1.0068E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=10.6

CROSS SECTION	H-PLANE		1.21376+00	1.2302E+00	1.2590E+00	1.3032E+00	1.3647E+00	1.4414E+00	1.5236E+00	1.5933E+00	1.6307E+00	1.6291E+00	1.6126E+00	1.6424E+00	1.8010E+00	2.1469E+00	2.6580E+00	3.1962E+00	3.5359E+00	3.4806E+00	3.0535E+00	2.6922E+00	3.3470E+00	6.3820E+00	1.3239E+01	2.4924E+01	4.1473E+01	6.1605E+01	8.2750E+01	1.0151E+02	1.1448E+02	1.1911E+02	
NORMAL 1 ZED C	E-PLANE	1	6.06R5E-01	1,1055E+00	1.63 . 1E+00	1.93%2E+00	1.8246E+00	1.3313E+00	6.5932E-01	1.54745-01	1.17'3E-01	6.5412E-01	1.6050E+00	2.5957E+00	3.2072E+00	3.1489E+00	2.44F0E+00	1.4019E+00	5.1618E-01	3.224BE-01	1.2772E+00	3.7543E+00	8.1232E+00	1.4835E+01	2.4436E+01	3.7208E+01	5.3005E+01	7.0856E+01	8.88435+01	1.0456E+02	1.1529E+02	1.1911E+02	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE		1.0110E+00	1.0047E+00	1.0025E+00	1.0059E+00	1.0146E+00	1.0263E+00	1.0374E+00	1.0443E+00	1.0448£+00	1.0393E+00	1.0305E+00	1.0233E+00	1.0222E+00	1.0295E+00	1.0445E+00	1.0629E+00	1.0790E+00	1.0878E+00	1.0876E+00	1.0809E+00	1.0737E+00	1.0729E+00	1.0830E+00	1.1043E+00	1.1323E+00	1.1602E+00	1.1820E+00	1.1952E+00	1.2015E+00	1.2057E+00	
NORMALIZED C	E-PLANE		8.4165E-01	8.7001E-01	9.4777E-01	1.0517E+00	1.1455E+00	1.1921E+00	1.1672E+00	1.0717E+00	9.3469E-01	8.0639E-01	7.40506-01	7.7215E-01	8.9996E-01	1.0809E+00	1.2426E+00	1.3111E+00	1.2440E+00	1.0545E+00	8.1416E-01	6.28146-01	5.90946-01	7.3958E-01	1.0271E+00	1.3329E+00	1.5110E+00	1.4583E+00	1.1727E+00	7.6874E-01	4.3680E-01	3.5719E-01	
	ANGLE		62.0	64.0	0.99	0.89	10.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION	H-PLANE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0772E+00	1.0747E+00	1.0676E+00	1.0567E+00	1.0432E+00	1.0287E+00	1.0147E+00	1.0028E+00	9.9415E-01	9.8952E-01	9.8903E-01	9.9222E-01	9.9807E-01	1.0051E+00	1.0118E+00	1.0166E+00	1.0184E+00	1.0169E+00	1.0122E+00	1.0057E+00	9.9837E-01	9.9387E-01	9.91986-01	9.9409E-01	9.9935E-01	1.0082E+00	1.0169E+00	1.0234E+00	1.0262E+00	1.0242E+00	1.0185E+00
NORMALIZED C	E-PLANE		1.0772E+00	1.0705E + 00	1.0519£+00	1.0252E+00	9.95768-01	9.6960E-01	9.5191E-01	9.4624E-01	9.53778-01	9.7308E-01	1.0003E+00	1.0294E+00	1.05385+00	1.0667E+00	0	1.0431E+00	1.0082E+00	9.66086-01	9.2746E-01	9.0370E-01	9.0384E-01	9.3137E-01	9.8223E-01	1.0447E+00	1.1016E+00	1.1352E+00	1.1323E+00	1.0897E+00	1.0167E+00	9.3370E-01	8.6724E-01
	ANGLE		0.0	5.0	0.4	9.0	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=10.8

H-PLANE	ANGLE	E-PLANE	CACSS SECTION H-PLANE	ANGLE	E-PLANE H-PLANE	H-PLANE
.1342E+00	62.0	8.7206E-01	1.0212E+00	122.0	4.1834E-01	1.2195E+00
.1315E+00	64.0	8.3144E-01	1.0138E+00	124.0	8.14A3E-01	1.2312E+00
.1236E+00	99	8.4731E-01	1.0069£+00	126.0	1.38148+00	1.2526E+00
.1110E+00	68.0	9.2019E-01	1.0036E+00	128.0	1.84516+00	1.2884E+00
.0945E+00	70.0	1.0287E+00	1.0060E+00	130.0	1.9532E+00	1.3426E+00
.0755E+00	72.0	1.1343E+00	1.0141E+00	132.0	1.6127E+00	1.4168E+00
.0552E+00	74.0	1,1945E+00	1.0259E+00	134.0	9.60.19E-01	1.5048E+00
.0351E+00	76.0	1.1790E+00	1.0376E+00	136.0	3.2080E-01	1.5894E+00
.0167E+00	78.0	1.0849E+00	1.0452E+00	138.0	5.6437E-02	1.6465E+00
.0015E+00	80.0	9.4218E-01	1.0462E+00	140.0	3.83135-01	1.6589E+00
9.9048E-01	82.0	8.0567E-01	1.0409E+00	142.0	1.2421E+00	1.6381E+00
9.8442E-01	84.0	7.3550E-01	1.0323E+00	144.0	2.3039E+00	1.6382E+00
9.8334E-01	96.0	7.7092E-01	1.0254E+00	146.0	3.1110E+00	1.7483E+00
9.86GBE-01	88.0	9.0943E-01	1.0250E+00	148.0	3.2951E+00	2.0498E+00
9,937.1E-01	90.0	1.1014E+00	1.0334E+00	150.0	2.7601E+00	2.5518E+00
.0014E+00	92.0	1,2654E+00	1.0494E+00	152.0	1.7432E+00	3.1380E+00
.0092E+00	94.0	1.3218E+00	1.0684E+00	154.0	7.3236E-01	3.5750E+00
.0149E+00	0.96	1.2303E+00	1.0841E+00	156.0	3.0252E-01	3.6199E+00
.01746+00	0.86	1.0155£+00	1.0917E+00	158.0	9.7569E-01	3.2218E+00
.0162E+00	100.0	7.6507E-01	1.0903E+00	160.0	3.18815+00	2.7531E+00
.0119E+00	102.0	5.9637E-01	1.0834E+00	162.0	7.3647E+00	3.1522E+00
.0057E+00	104.0	6.0298E-01	1.0777E+00	164.0	1.4010E+01	5.8580E+00
9.9972E-01	106.0	8.044E-01	1.0800E+00	166.0	2.36ABE+01	1.2471E+01
9.9584E-01	108.0	1,1253E+00	1.0940E+00	168.0	3.6807E+01	2.4193E+01
9.9556E-01	110.0	1.4193E+00	1.1184E+00	170.0	5.3255E+01	4.1209E+01
9.9934E-01	112.0	1.5339E+00	1.1476E+00	172.0	7.2043E+01	6.2262E+01
.0064E+00	114.0	1.3883£+00	1.1746E+00	174.0	9.1178E+01	8.4638E+01
.0149E+00	116.0	1.0258E+00	1.1946E+00	176.0	1.0793E+02	1.0466E+02
.0224E+00	118.0	6.09566-01	1.2064E+00	178.0	1.1943E+02	1.1856E+02
.0266E+00	120.0	3.5396E-01	1.2130E+00	180.0	1.2354E+02	1.2354£+02
0001500						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=11.0

ANG: E	NORMALIZED E-PLANE	ZED CROSS SECTION NE H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
	!		1 6	10000	1000		10.36.96	10000000
9 0	1.05485500	1.00.18.00	0.79	9.10.E.01	1 0226F+00	124.0	5 62315-01	1 23555+00
) (•	1 06305+00	99.0	8.3350E-01	1.0159F+00	126.0	1.0839E+00	1.2511E+00
r c		1.06056+00	68.0	8.3773E-01	1.0087E+00	128.0	1.6602E+00	1.2785E+00
0.6	*.	1.0565E+00	10.0	9.0578E-01	1.0048£+00	130.0	1.97.125+00	1.3237E+00
0.01	1.1	1,0509E+00	72.0	1.0179E+00	1.0066E+00	132.0	1.83135+00	1.3917E+00
12.0	9.87136-01	1.0434E+00	74.0	1.1331E+00	1.0145E+00	134.0	1.2713E+00	1.4807E+00
0.4		1.0342E+00	16.0	1.2031E+00	1.0265E+00	136.0	5.585.15-01	1.5769E+00
16.0		1.0236E+00	78.0	1.1923E+00	1.0387E+00	138.0	9.0654E-02	1.6540E+00
18.0		1.0125E+00	80.0	1,0954E+00	1.0468E+00	140.0	1.83355-01	1.6858E+00
20.0		1,001RE+00	82.0	9.4432E-01	1.0481E+00	142.0	8.9512E-01	1.6695E+00
22.0		9.9238E-01	84.0	8.0021E-01	1.0428E+00	144.0	1.9702E+00	1.6480E+00
24.0	9.44505-01	9.86/2E-01	86.0	7.2945E-01	1.0343E+00	146.0	2.9450E+00	1.7116E+00
26.0	9.81735-01	9.8422E-01	88.0	7.7379E-01	1.0279E+00	148.0	3.3701E+00	1.9612E+00
28.0	1.0266[+00	9.8567E-01	90.06	9.2674E-01	1.0285E+00	150.0	3.0368E+00	2.4393E+00
30.0			92.0	1.1292E+00	1.0384E+00	152.0	2.0925E+00	3.0587E+00
32.0	1.1005€+00	-	94.0	1.2897E+00	1.0556E+00	154.0	9.9439E-01	3.5877E+00
34.0			0.96	1.3247E+00	1.0749E+00	156.0	3.4714E-01	3.7430E+00
36.0		-	98.0	1.2005E+00	1.0897E+00	158.0	7.3720E-01	3.3981E+00
38.0		-	100.0	9.5842E-01	1.0958E+00	160.0	2.66858+00	2.8486E+00
40.0		1.0197E+00	102.0	7.0514E-01	1.0931E+00	162.0	6.6222E+00	3.0056E+00
42.0	9.43495-01	1.01696+00	104.0	5.6804E-01	1.0863E+00	164.0	1.3157E+01	5.3716E+00
44.0		1.0113E+00	106.0	6.3271E-01	1.0828E+00	166.0	2.290:E+01	1.1707E+01
46.0		1,0016E+00	108.0	8.9196E-01	1.0889E+00	168.0	3.6344E+01	2.3421E+01
48.0	9.10855-01	9.98975-01	110.0	1.2358E+00	1.1069E+00	170.0	5.3431E+01	4.0870E+01
50.0		9.9645E-01	112.0	1.4943£+00	1.1340E+00	172.0	7.3167E+01	6.2839E+01
52.0	•		114.0	1.5198E+00	1.1637E+00	174.0	9.3443E+01	8.64775+01
54.0	•	1.0038E+00	116.0	1.2700E+00	1.1894E+00	176.0	1.1130E+02	1.0780E+02
56.0	1.1259E+00	1.0120£+00	118.0	8.45866-01	1.2075E+00	178.0	1.2363E+02	1.2269E+02
58.0	1.1154E+00	1.0201E+00	120.0	4.5797E-01	1.2186E+00	180.0	1.2803E+02	1.2803E+02
60.0	1.0597E+00	1.0256E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

P. Terreschen Pranchez (Printera et Liverand)

68888 - 2888888 | 18888888 | 2888888 | 28888 21 | 1888 21 | 1

BISTATIC SCATTERING FROM CONDUCTING SPHERE

A=11.2

SS SECTION H-PLANE	1.2321E+00	1.2413E+00	1.2534E+00	1.2736E+00	1.3092E+00	1.3681E+00	1.4537E+00	1.5569E+00	1.6523E+00	1.7068E+00	1.7033E+00	1.6696E+00	1.6913E+00	1.8848E+00	2.3254E+00	2.9617E+00	3.5739E+00	3.8462E+00	3.5767E+00	2.9742E+00	2.9067E+00	4.9267E+00	1.0952E+01	2.2613E+01	4.0461E+01	6.3341E+01	8.8267E+01	1.1095E+02	1.2686E+02	1.3259E+02	
NORMALIZED CROSS SECTION	3.4433E-01	3.8414E-01	7.9871E-01	1.4072E+00	1.8947E+00	1.9757E+00	1.5634E+00	8.460RE-01	2.1493E-01	6.75446-02	5.8626E-01	1.6153E+00	2.7147E+00	3.3723E+00	3.2660E+00	2.4373E+00	1.2926E+00	4.5236E-01	5.6350E-01	2.2012E+00	5.90R4E+00	1.2301E+01	2.2080E+01	3.5817E+01	5.3532E+01	7.4226E+01	9.5676E+01	1.1469E+02	1.2787E+02	1.3259E+02	
# SNA	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ISS SECTION	1.0250E+00	1.0274E+00	1.0248E+00	1.0183E+00	1.0111E+00	1.0068E+00	1.0082E+00	1.0160E+00	1.0283E+00	1.0408E+00	1.0491E+00	1.0502E+00	1.0447E+00	1.0362E+00	1.0305E+00	1.0326E+00	1.0442E+00	1.0626E+00	1.0819£+00	1.0954E+00	1.0995E+00	1.0956E+00	1.0895E+00	1.0890E+00	1.0995E+00	1.1216E+00	1.1508E+00	1.1802E+00	1.2043E+00	1.2210E+00	
NURMALIZED CROSS SECTION	1.0882E+00	1,0023E+00	9.06796-01	8.3983E-01	8.3281E-01	8.9601E-01	1,0107E+00	1,1329E+00	1,2088E+00	1,1982E+00	1.0947E+00	9.3421E-01	7.8488E-01	7.1897E-01	7.7849E-01	9.49705-01	1,1613E+00	1.3116E+00	1,3158E+00	1.1526E+00	8.8526E-01	6.4093E-01	5.5266E-01	6.8848E-01	1.0046E+00	1,3525E+00	1.5459£+00	1.4584E+00	1.1043E+00	6.50506-01	
ANGLE	62.0	64.0	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	9.4217E-01	9.4432E-01	9.5051E-01	9.6002E-01	9.7175E-01	9.8430E-01	9.96175-01	1.0000E+00	1.0125E+00	1.0153E+00	1.0144E+00	1.0103E+00	1.0015E+00	9.9835E-01	9.9355E-01	9.9163E-01	9.9294E-01	9.9736E-01	1.0039E+00	1.0109E+00	1.0166E+00	1.0192E+00	1.0181E+00	1.0136E+00	1.0071E+00	1.0008E+00	9.96336-01	9.9696E-01	1.0015E+00	1.0094E+00	1.0182E+00
NORMALIZED C	9.4217E-01	- 1		9.8733E-01	٠	+	+	1.05555+00	+	1.0228£+00		1	9.4786E-01	٠				+	+	-	1.0635E+00		9.5885E-01		8.8121E-01		9.34915-01	1.0054E+00	1.0790E+00	1.1292E+00	1.1346E+00
1 ON 4	0.0	9.0	4.0	0.9	0.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	43.0	20.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=11.4

CROSS SECTION H-PLANE		1.23576+00	1.2473E+00	1.2583E+00	1.2734E+00	1.3001E+00	1.3483E+00	1.4262E+00	1.5313E+00	1.6416E+00	1.7202E+00	1.7364E+00	1.7004E+00	1.6875E+00	1.8233E+00	2.2149E+00	2.8513E+00	3.5349E+00	3.9271E+00	3.7529E+00	3.1259E+00	2.8545E+00	4.5264E+00	1.0213E+01	2.1779E+01	3.9990E+01	6.3776E+01	9.0023E+01	1.1411E+02	1.3111E+02	1.3724E+02	
NORMALIZED (E-PLANE		4.65995-01	3.03736-01	5.4932E-01	1.1186E+00	1.7249E+00	2.0230E+00	1.8079E+00	1.1559E+00	4.1657E-01	4.1465E-02	3.33705-01	1.2586E+00	2.4311E+00	3.300BE+00	3.4374E+00	2.7643E+00	1.6164E+00	6.1313E-01	4.549CE-01	1.7891E+00	5.2259E+00	1.1414E+01	2.1222E+01	3.5225E+01	5.3553E+01	7.5218E+01	9.7881E+01	1.1811E+02	1.3219E+02	1.3724E+02	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CROSS SECTION H-PLANE		1.0176E+00	1.0253E+00	1.0288E+00	1.0270E+00	1.0209E+00	1.0135E+00	1.0089E+00	1.0101E+00	1.0180E+00	1.0305E+00	1.0432E+00	1.0513E+00	1.0520E+00	1.0460E+00	1.0376E+00	1.0330E+00	1.0370E+00	1.0506E+00	1.0702E+00	1.0890E+00	1.1007E+00	1.1026E+00	1.0979E+00	1.0935E+00	1.0969E+00	1.1122E+00	1.1380E+00	1.1686E+00	1.1972E+00	1.2197E+00	
NORMALIZED C E-PLANE	11111111	1.1475E+00	1.1079E+00	1.0211E+00	9.1750E-01	8.3928E-01	8.2319E-01	8.8345E-01	1.0017E+00	1,1303E+00	1.2100E+00	1.1965E+00	1.0840E+00	9.1417E-01	7.6319E-01	7.0862E-01	7.9016E-01	9.8311E-01	1.2012E+00	1.3325E+00	1.2957E+00	1.0886E+00	8.0175E-01	5.8271E-01	5.6252E-01	7.7929E-01	1.1425E+00	1,4656€+00	1.5590E+00	1.3403E+00	8.9836E-01	
ANGLE		62.0	64.0	96.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION H-PLANE	1 1 1 1 1 1 1	8.8712E-01	8.8961E-01	8.9691E-01	9.08585-01	9.2387E-01	9.4170E-01	9.6069E-01	9.7929E-01	9,95875-01	1.0090E+00	1.0176E+00	1.0212E+00	1.0201E+00	1,0153E+00	1.0083E+00	1.0012E+00	9.9572E-01	9.9330E-01	9.9451E-01	9.9898E-01	1.0054E+00	1.0118E+00	1.0163E+00	1.0175E+00	1.0149E+00	1.0095E+00	1,0032E+00	9.9850E-01	9.9747E-01	1.0010E+00	1.0085E+00
NORMALIZED (E-PLANE		8.8712E-01	8.9460E-01	9.1624E-01	9.4968E-01	9.9C85E-01	1,0341E+00		1.0996E+00	1.1039E+00	1.1009E+00	1.0737E+00	1,03365+00	9.84795-01	9.49295-01	9.2437E-01	9.20405-01	9.38361-01	9.7576E-01	1.0210E+00	1.0616E+00	1.0841E+00	1.07955+00	1.0463E+00	9.9279E-01	9.3552E-01	8.9482E-01	8.8792E-01	9.2196E-01	9.8942E-01	1.0687E+00	1.1302E+00
ANGLE		0.0	5.0	4	6. 9	8.0	0.01	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=11.6

90.0 7.4096E-01	90.0
92.0 7.0501E-01	92.0
94.0 8.1553E-01	94.0
.0320E+00 .2503E+00 .3503E+00 .0070E+00 .0070E+00 .1220E-01 .0085ZE-01 .0087ZE-01 .2964E+00 .5536E+00	

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

NORMAL 1 ZED	ED CROSS SECTION	ANGIA	NORMALIZED C	NORMALIZED CROSS SECTION F-PLANE H-PLANE	₽ ISN A	NORMALIZED C	NORMALIZED CROSS SECTION F-PLANE H-PLANE
1.0623E+00	-	62.0	1.0259E+00	1.0019E+00	122.0	9.1891E-01	1.2335E+00
1.0557E+00	1.05985+00	64.0	1,1056E+00	1.0081E+00	124.0	4.5198E-01	1.2544E+00
1.0376E+00	-	0.99	1.1447E+00	1.0171€+00	126.0	2.8533E-01	1.2702E+00
1.0126E+00	1.0424E+00	68.0	1,1203E+00	1.0257E+00	128.0	5.7223E-01	1.2830E+00
9. E680E-01	1.0299E+00	70.0	1,0354E+00	1.0304E+00	130.0	1.2001E+00	1.2975E+00
9.66511-01	_	72.0	9.2175E-01	1.0295E+00	132.0	1.8257E+00	1.3244E+00
9.5667E-01	-	74.0	8.2951E-01	1.0237E+00	134.0	2.06 3E+00	1.3789E+00
9.5965E-01	٠.	76.0	8.05735-01	1.0162E+00	136.0	1.7250E+00	1.4722E+00
9.7476E-01		78.0	8.7072E-01	1.0116E+00	138.0	9.7148E-01	1.5972E+00
9.9825E-01	o	80.0	1.0034E+00	1.01346+00	140.0	2.4748E-01	1.7192E+00
1.0240E+00	6	82.0	1.1454E+00	1.0224E+00	142.0	4.75275-02	1.7884E+00
1.0447E+00		84.0	1,2249E+00	1.0358E+00	144.0	6.1212E-01	1.7765E+00
1.0537E+00		86.0	1.1923E+00	1.0487E+00	146.0	1.7574E+00	1.7229E+00
1.0467E+00	_	88.0	1.0502E+00	1.0557E+00	148.0	2.9471E+00	1.7512E+00
1.0236E+00	_	0.06	8.6028E-01	1.0546E+00	150.0	3.5784E+00	2.0197E+00
9.8945E-01	1.0139E+00	92.0	7.1914E-01	1.0475E+00	152.0	3.31A3E+00	2.6067E+00
9.5368E-01	-	94.0	7.1054E-01	1.0403E+00	154.0	2.2990E+00	3.3879E+00
9.2795E-01	-	96.0	8.5645E-01	1.0394E+00	156.0	1.0769E+00	4.0137E+00
9.2258E-01	on	98.0	1.0948E+00	1.0487E+00	158.0	4.2569E-01	4.0785E+00
9.4262E-01	-	100.0	1.3019E+00	1.0669E+00	160.0	1.13556+00	3.4877E+00
9.85078-01		102.0	1.3543E+00	1.0877E+00	162.0	3.9657E+00	2.8817E+00
1.0385E+00		104.0	1.200BE+00	1.1038E+00	164.0	9.7403E+00	3.8670E+00
1.08575+00		106.0	9,04556-01	1.1104E+00	166.0	1.9408E+01	8.8016E+00
1.1093E+00	1.0069E+00	108.0	6.2256E-01	1.1086E+00	168.0	3.3851E+01	2.0047E+01
1.0977E+00	1.0138E+00	110.0	5.2602E-01	1.1047E+00	170.0	5.3364E+01	3.8872E+01
1.0511E+00	-	112.0	6.9860E-01	1.1069E+00	172.0	7.7006E+01	6.44425+01
9.8301E-01	-	114.0	1.0720E+00	1.1204E+00	174.0	1.0221E+02	9.3418E+01
9.16916-01	1.0157E+00	116.0	1.4450E+00	1.1450E+00	176.0	1.2502E+02	1.2049E+02
8.7871E-01	1.0098E+00	118.0	1.5887E+00	1.1760E+00	178.0	1.4104E+02	1.3981E+02
8.8649E-01	1.0038E+00	120.0	1.3854E+00	1.2069E+00	180.0	1.4682E+02	1.4682E+02

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=12.0

	5	ZED CRUSS SECTION	U	NORMALIZED C	COMMALIZED CHOSS SECTION			CACSS SEC. LOS
-:	-	H-PLANE	ANCLE	E-PLANE	FI-PLANE	ANGLE	FIFERNE	LALANE
			!!!!	1111111	1 1 1 1 1 1 1 1 1	1 1 1 1 1		
1.11456	00.	1.1145E+00	62.0	9.2428E-01	1.0012E+00	122.0	1.1759E+00	1.2275E+00
1,1059.+	00+	1,1111.E+00	64.0	1.0119E+00	1.0020E+00	124.0	6.5282E-01	1.2535E+00
1.0816	000	1.1033E+CO	0.99	1.1007E+00	1.0078E+00	126.0	3.0023E-01	1.2742E+00
1.0456	00.	1.09,38+00	68.0	1.1496E+00	1.0169E+00	128.0	3.79105-01	1.2895E+00
1.0038	00+	1.0737E+00	70.0	1.1307E+00	1.0259£+00	130.0	9.05/86-01	1.3021E+00
9.63075	-01	1.0550E+00	72.0	1.0445E+00	1.0311E+00	132.0	1.60-17E+00	1.3208E+00
9.3007	10.	1.035-RE+00	74.0	9.2503E-01	1.0304E+00	134.0	2.0521E+00	1.3621E+00
9,10496	0-	1.01308+00	0.92	8.2752E-01	1.0247E+00	136.0	1.9363E+00	1.4432E+00
9.08028	-01	1.00 32E+00	78.0	8.0424E-01	1.0173E+00	138.0	1.2778E+00	1.5665€+00
9.23595	-01	9.92316-01	80.0	8.7665E-01	1.0131E+00	140.0	4.6027E-01	1.7042E+00
9.54620	101	9.8678E-01	82.0	1.0191E+00	1.0157E+00	142.0	2.8131E-02	1.8022E+00
9.9497	10.	9.86028-01	84.0	1.1649E+00	1.0257E+00	144.0	3.57306-01	1.8146E+00
1.0356	00+	9.89.185-01	86.0	1.2359E+00	1.0398E+00	146.0	1.4017E+00	1.7571E+00
1.06645	00+	9.957RE-01	88.0	1.1832E+00	1.0523E+00	148.0	2.6830E+00	1.7411E+00
1.0786	000	1.00 :0E+00	0.06	1,0196E+00	1.0583E+00	150.0	3.5455E+00	1.9413E+00
1.0682E	00+	1.0043E+00	92.0	8.2169E-01	1.0559E+00	152.0	3.5289E+00	2.4808E+00
1.0372	00+	1.0130E+30	94.0	6.9686E-01	1.0484E+00	154.0	2.63HOE+00	3.2845E+00
9.94395	-01	1.0133E+00	0.96	7.2589E-01	1.0423E+00	156.0	1.3653E+00	4.0162E+00
9.53370	-01	1.0104E+00	0.86	9.11746-01	1.0442E+00	158.0	4.9967E-01	4.2183E+00
9.28405	-01	1.005:1E+00	100.0	1.1655E+00	1.0567E+00	160.0	8.9780E-01	3.6868E+00
9.2967	-01	1.0001E+00	102.0	1.3451E+00	1.0768E+00	162.0	3.3996E+00	2.9552E+00
9.590.1	-01	9.96546-01	104.0	1.3325E+00	1.0973E+00	164.0	8.909E+00	3.609BE+00
1.0083	00+	9.9673E-01	106.0	1,1097E+00	1.1109E+00	166.0	1.8472E+01	8.1358E+00
1.0605	00+	9.9955E-01	108.0	7.8516E-01	1,1146E+00	168.0	3.3085E+01	1.9154E+01
1.0956E	00•	1.0056E+00	110.0	5.4615E-01	1.1119E+00	170.0	5.3160E+01	3.8221E+01
1.0973E	00+	1.0125E+00	112.0	5.5369E-01	1.1102E+00	172.0	7.7797E+01	6.4658E+01
1.0604E	00.	1.0178E+00	114.0	8.3693E-01	1.1173E+00	174.0	1.0432E+02	9.5032E+01
9.9462E	-01	1.01956+00	116.0	1.2546E+00	1.1362E+00	176.0	1.2849E+02	1.2367E+02
9.2311E	-01	1.0170E+00	118.0	1.5598E+00	1.1646E+00	178.0	1.4554E+02	1.4423E+02
8.7486E	-01	1.0114E+00	120.0	1.5434E+00	1.1968E+00	180.0	1.51716+02	1.5171E+02
471.45	į	40.000						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=12.2

CROSS SECTION H-PLANE	1.2187E+00	1.2493E+00	1.2752E+00	1.2950E+00	1.3087E+00	1.3222E+00	1.3512E+00	1.4175E+00	1.5333E+00	1.6806E+00	1.8059£+00	1.8483E+00	1.7981E+00	1.7474E+00	1.8791E+00	2.3582E+00	3.1656E+00	3.99166+00	4.3377E+00	3.8912E+00	3.0642E+00	3.4018E+00	7.5024E+00	1.8251E+01	3.7513E+01	6.4798E+01	9.6592E+01	1.26B6E+02	1.4870E+02	1.5667E+02	
NORMALIZED C	1.4018E+00	9.0170E-01	4.1234E-01	2.7351E-01	6.3634E-01	1.333E+00	1.9504E+00	2.072FE+00	1.5706E+00	7.2525E-01	9.2136E-02	1.6732E-01	1.0581E+00	2.3776E+00	3.4466E+00	3.68:2E+00	2.9617E+00	1.6800E+00	6.2752E-01	7.21446-01	2.8834E+00	8.1032E+00	1.7524E+01	3.2271E+01	5.2883E+01	7.8515E+01	1.0638E+02	1.3197E+02	1.5010E+02	1.5667E+02	
ANGLE	 122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NOSS SECTION H-PLANE	 1.0064E+00	1.0022E+00	1.0026E+00	1.0083E+00	1.0176E+00	1.0270E+00	1.0324E+00	1.0317E+00	1.0259E+00	1.0186E+00	1.0150E+00	1.0187E+00	1.0298E+00	1.0444E+00	1.0563E+00	1.0607E+00	1.0569E+00	1.0492E+00	1.0450E+00	1.0503E+00	1.06616+00	1.0875E+00	1.1066E+00	1.1171E+00	1.1184E+00	1.1159E+00	1.1179E+00	1.1305E+00	1.1545E+00	1.1857£+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	8.7060E-01	9.1755E-01	1,0075E+00	1.1029E+00	1,1577E+00	1.1397E+00	1.0485E+00	9.2155E-01	8.2035E-01	8.0145E-01	8.8514E-01	1.0384E+00	1.1847E+00	1.2402E+00	1.1611E+00	9.7452E-01	7.7500E-01	6.7829E-01	7.55405-01	9.8222E-01	1.2393E+00	1,3712E+00	1.2784E+00	9.8946E-01	6.6247E-01	5.0325E-01	6.3866E-01	1,0212E+00	1.4340E+00	1.6097E+00	
ANGLE	 62.0	64.0	0.99	0.89	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	0.06	95.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
D CROSS SECTION H-PLANE	 1.0582E+00	1.0576E+00	1.0557E+00	1.0524E+00	1.0474E+00	1.0406E+00	1.0320E+00	1.0222E+00	1.0117E+00	1.0018E+00	9.93618-01	9.8833E-01	9.8673E-01	9.8891E-01	9.9425E-01	1.0014E+00	1.0084E+00	1.0136E+00	1.0156E+00	1.0139E+00	1,0044E+00	1.0036E+00	9.9864E-01	9.9654E-01	9.9826E-01	1.0034E+00	1.0102E+00	1.0162E+00	1.01916+00	1.0177E+00	1.0127E+00
NORMALIZED C E-PLANE	 1,0582E+00	1.0557£+00	1.04835+00	-0	1.0180E+00	9.9663E-01	9.7314E-01	9.50675-01	9,3365E-01	9.2701E-01	9.3468E-01	9.5778E-01	9,93335-01	1.03405+00	1.06946+00	1.06911.00	1.0857E+00	1.0580E+00	1.0125F+00	9.6218E-01	9,23235-01	9.0972E-01	9.26346-01	9,74745-01	1.033.15+00	0	1,0997E+00	1.0751E+00		9.38685-01	8.8135E-01
ANGLE	0.0	0.0	0.4	0.9	0.6	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=12.4

O CROS	— i	.5628E+00 1.2083E+00	.1619E+00 1.2421E+00	_	-	-	_	-	<u>-</u>	-	1.0212E+00 1.6502E+00	6E-01 1.7991E+00	-	7E-01 1.8426E+00	-				_	8.0488E-01 4.4343E+00		_	_	_				_	_	_	1.6173E+02 1.6173E+02	
		122.0 1.5628E+0	_	_		130.0 4.2121E-01	•	-		_	140.0 1.021	142.0 2.3296E-0		146.0 7.4287E-01					156.0 2.011	158.0 8.048	160.0 6.0608E-01		_	166.0 1.6564E+01		170.0 5.2531E+01	-	_	_	_	180.0 1.617	
NORMALIZED CROSS SECTION	H-PLANE	1.01446+00	1.0082E+00	1.0037E+00	1.0039E+00	1.0096E+00	1.0191E+00	1.0286E+00	1.0340E+00	1.0329E+00	1.0267E+00	1.0196E+00	1.0169E+00	1.0220E+00	1.0344E+00	1.0492E+00	1.0601E+00	1.0625E+00	1.0573E+00	1.0501E+00	1.0485E+00	1.0578E+00	1.0766E+00	1.0985E+00	1.1153E+00	1.1225E+00	1.1221E+00	1.1214E+00	1.1284E+00	1.1468E+00	1.1750E+00	
NORMALIZED C	E-PLANE	8.8833E-01	8.6862E-01	9.11436-01	1.0031E+00	1.1031E+00	1.1607E+00	1.1402E+00	1.0418E+00	9.0787E-01	8.0647E-01	7.9736E-01	8.9699E-01	1.0620E+00	1.2048E+00	1.2380E+00	1.1269E+00	9.18786-01	7.2731E-01	6.7254E-01	8.0665E-01	1.0700E+00	1.3116E+00	1.3724E+00	1.1886E+00	8.4804E-01	5.5620E-01	5.15936-01	7.8992E-01	1.2365E+00	1.5760E+00	
	ANGLE	62.0	64.0	0.99	0.89	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE	9.5280F-01	9.54936-01	9.6101E-01	9.7018E-01	9.8111E-01	9.9221E-01	1.0019E+00	1.0038E+00	1.0121E+00	1.0117E+00	1.0083E+00	1.0031E+00	9.9769E-01	9.9423E-01	9.9330E-01	9.9550E-01	1.0003E+00	1.0052E+00	1.0115E+00	1.0145E+00	1.0141E+00	1.0106E+00	1.0050E+00	9.9962E-01	9.9654E-01	9.9722E-01	1.0018E+00	1.0087E+00	1.0154E+00	1.0193E+00	1.0188E+00
NORMAL 12ED (E-PLANE	9 5280F-01	9.5846E-01	9.7416E-01	9.96306-01	1.0195E+00	1.0376E+00	1.0453E+00	1.04095+00	1.0224E+00	9.37545-01	9.7304E-01	9.5733[-01	9.5674E-01	9.7313E-01	1.0028E+00	1.0369E+00	1.06385+00	1.0739E+00	1.0583E+00	1.0216E+00	9.7272E-01	9.2799E-01	9.0460E-01	9.1418E-01	9.5705E-01	1.0200E+00	1.0793E+00	1.1096E+00	1.0946E+00		9.5527E-01
	ANGLE	0	0.0	4	6.0	0.0	10.0	12.0	14.0	16.0	0.81	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=12.6

9.6189E-01 1.	B 8691E-01	64 0 9.6189E-01 1.	64 0 9 86015-01	62.0 9.6189E-01 1.	9.02046-01 62.0 9.6198-01 1.
9.6189E-01 1.8.8691E-01 1.8.6058E-01 1.	8.8691E-01 1.	64.0 8.8691E-01 1. 66.0 8.6058E-01 1.	64.0 8.8691E-01 1. 66.0 8.6058E-01 1.	9,0224E-01 62.0 9.6189E-01 1. 9,0489E-01 64.0 8.8691E-01 1. 9,1264E-01 66.0 8.6058E-01 1.	9,0224E-01 62.0 9.6189E-01 1. 9,0489E-01 64.0 8.8691E-01 1. 9,1264E-01 66.0 8.6058E-01 1.
9.0168E-01 1.	9.0168E-01 1.	68.0 9.0168E-01 1.	68.0 9.0168E-01 1.	9.24945-01 68.0 9.0168E-01 1.	9.2404£_01 68.0 9.0168E_01 1.
1.1016E+00 1.	1.1016E+00 1.	72.0 1.1016E+00 1.	72.0 1.1016E+00 1.	9.4045E-01 72.0 9.9063E-01 1.	9.4045E-01 72.0 9.9053E-01 1.
.0 1.1609E+00 1.0207E+00		74.0 1.1609E+00 1.	74.0 1.1609E+00 1.	9.7590E-01 74.0 1.1609E+00 1.	9.7590E-01 74.0 1.1609E+00 1.
1 0287F+00	1 0287F+00	78.0 1.02878+00 1.	78.0 1.02878+00 1.	1.0053E+00 78.0 1.0287E+00 1.	1.0053E+00 78.0 1.0287E+00 1.
8.89016-01	8.89016-01	80.0 8.8901E-01	80.0 8.8901E-01	1.0139E+00 80.0 8.8901E-01 1.	1.0139E+00 80.0 8.8901E-01 1.
7.9169E-01	7,9169E-01	82.0 7.9169E-01 1	82.0 7.9169E-01 1	1,0176E+00 82.0 7,9169E-01 1	1,0176E+00 82.0 7,9169E-01 1
7.9841E-01	7.9841E-01	84.0 7.9841E-01 1	84.0 7.9841E-01 1	1.0165E+00 84.0 7.9841E-01 1	1.0165E+00 84.0 7.9841E-01 1
9.18546-01 1	9.18546-01 1	86.0 9.18546-01 1	86.0 9.18546-01 1	1.0119E+00 86.0 9.1854E-01 1	1.0119E+00 86.0 9.1854E-01 1
1.0950E+00 1.	1.0950E+00 1.	88.0 1.0950E+00 1.	88.0 1.0950E+00 1.	1.0055E+00 88.0 1.0950E+00 1.	1 1.0055E+00 88.0 1.0950E+00 1.
1.2281E+00 1.	1.2281E+00 1.	90.0 1.2281E+00 1.	90.0 1.2281E+00 1.	90.0 1.2281E+00 1.	1 9.9934E-01 90.0 1.2281E+00 1.
	1.2300E+00 1. 1.0818E+00 1.	92.0 1.2300E+00 1. 94.0 1.0818E+00 1.	92.0 1.2300E+00 1. 94.0 1.0818E+00 1.	92.0 1.2300E+00 1.	1 9.9526E-01 92.0 1.2300E+00 1.
8.5615E-01 1.	8.5615E-01 1.			94 0 1 DRIBE+OO 1	0 04205-01
8.5615E-01 1.	8.5615E-01 1.			1.0818E+00 1.	9.9439E-01 94.0 1.0818E+00 1.
1.0818E+00 8.5615E-01	1.0818E+00 1. 8.5615E-01 1.	94.0 1.0818E+00 1.	94.0 1.0818E+00 1.		
.0	.0	98.0 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	94.00.00	1.0015E+00 88.0 1 1.0055E+00 88.0 1 9.9934E-01 92.0 1	1.0119E+00 86.0 9 1.0055E+00 88.0 1 9.9934E-01 90.0 1
V V 0	V V 0	88.0 7 8 8 8 6 0 9 9 9 9 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1	88.0 7 8 8 8 6 0 9 9 9 9 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1	1.0176E+00 82.0 7 1.0165E+0 84.0 7 1.0119E+00 86.0 9 1.0055E+00 88.0 1 9.9926E-01 92.0 1	1.01766+00 82.0 7 1.01558+00 84.0 7 1.01196+00 86.0 7 1.00556+00 88.0 1 9.99346-01 90.0 1
V0	V0	88.0 0 9 90.0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	94.0 94.0 94.0	1.0155E+00 1.0119E+00 1.0055E+00 9.9934E-01 9.9526E-01	1.01555+00 84.0 7 1.01195+00 86.0 9 1.00555+00 88.0 1 9.99345-01 90.0 1
.	28 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0000	0000	1.0176E+00 1.015E+00 1.0119E+00 1.0055E+00 9.993E-01	1.0176E+00 1.0156E+00 1.0119E+00 1.0055E+00 9.9930E+01
6 6 6 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9		-000000	9220E-01 0033E+00 0139E+00 0176E+00 0119E+00 0015E+00 0055E+00 9934E-01	666	0000

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

1.2965E+00 1.2965E+00 1.3262E+00 1.3438E+00 1.3752E+00 1.3752E+00 1.3752E+00 1.3762E+00 1.3762E+00 1.9007E+00 NORMALIZED EPLANE 1.566x1E+00 1.566x1E+00 1.1077E+00 2.3418E-01 1.29573E+00 1.29573E+00 2.1422E+00 2.1422E+00 3.3470E-02 2.5238E-01 3.745E+00 2.5238E+00 3.745E+00 2.5538E+00 3.745E+00 ANGLE 1.0206E+00 1.0211E+00 1.0106E+00 1.0106E+00 1.0059E+00 1.022E+00 1.0326E+00 1.0326E+00 1.0305E+00 1.0305E+00 1.0305E+00 1.0305E+00 1.0305E+00 1.0305E+00 1.0305E+00 1.0305E+00 1.0305E+00 1.0597E+00 1.0597E CROSS SECTION H-PLANE NORMALIZED (E-PLANE 1.0501E+00 9.6179E-01 8.1521E-01 8.9522E-01 9.9625E-01 1.1655E+00 1.1655 ANGLE 664.0 664.0 664.0 770.0 9.5261E-01 9.5238-01 9.5723E-01 9.6175E-01 9.6630E-01 9.8660E-01 9.9680E-01 1.0164E+00 1.0129E+00 1.004E+00 1.004E+ 9.5261E-01 9.5261E-01 9.5099E-01 1.0133E+00 1.0378E+00 1.0378E+00 1.0592E+00 1.0592E+00 1.0592E+00 1.0592E+00 1.0592E+00 1.0592E+00 1.0592E+00 1.0592E+00 1.0268E+00 1.0598E+00 1.0598E+00 1.0598E+00

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=13.0

CROSS SECTION H-PLANE		.1797E+00	.2122E+00	.2502E+00	.2906E+00	.3270E+00	.3514E+00	.3615E+00	.3734E+00	.4224E+00	.5417E+00	.7233E+00	.8968E+00	.9642E+00	.8937E+00	.8096E+00	.9767E+00	. 6190E+00	1.6542E+00	1.5669E+00	4.6663E+00	3.7757E+00	3.0539E+00	5.3623E+00	1.4639E+01	3.4210E+01	5.4647E+01	.0232E+02	.3962E+02	.6721E+02	.7739E+02	
NORMALIZED CROS		1.4848E+00	1.6518E+00	1.3432E+00	7.4936E-01	2.7974E-01	3.31046-01	9.5083E-01	1.7585E+00	2.1803E+00	1.8647E+00	9.8289E-01	1.6798E-01	9.9518E-02	1.0125E+00	2.4877E+00	3.6925E+00	3.9140E+00	3.0214E+00	1.5757E+00	•		5.1687E+00 3	<u>.</u>	_	5.1045E+01 3	8.0648E+01 6	1.1423E+02	1.4601E+02 1	1.6899E+02 1	1.7739E+02	
ANGLE	1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE		1.0154E+00	1.0207E+00	1.0214E+00	1.0174E+00	1.0111E+00	1.0066E+00	1.0073E+00	1.0142E+00	1.0248E+00	1.0342E+00	1.0378E+00	1.0344E+00	1.0273E+00	1.0223E+00	1.0249E+00	1.0363E+00	1.0521E+00	1.0651E+00	1.0695E+00	1.0654E+00	1.0591E+00	1.0592E+00	1.0706E+00	1.0914E+00	1.1138E+00	1.1297E+00	1.1364E+00	1.1380E+00	1.1424E+00	1.1558E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.1078E+00	1.0545E+00	9.6371E-01	8.7960E-01	8.4945E-01	8.9720E-01	1.0058E+00	1.1204E+00	1.1742E+00	1,1269E+00	9.9368E-01	8.4506E-01	7.7149E-01	8.2921E-01	9.9820E-01	1.1829E+00	1.2630E+00	1.1704E+00	9.4368E-01	7.1897E-01	6.5098E-01	8.0829E-01	1.1102E+00	1.3611E+00	1.3735E+00	1.1057E+00	7.1541E-01	4.7461E-01	5.8435E-01	1.0131E+00	
ANGLE	1 1 1	62.0	64.0	0.99	68.0	70.0	72.0	74.0	0.92	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
D CROSS SECTION H-PLANE		1.0503E+00	1.0479E+00	1.0413E+00	1.0314E+00	1.0200E+00	1.0039E+00	9,9998E-01	9.9436E-01	9.9250E-01	9,9443E-01	9.9879E-01	1,0041E+00	1.0087E+00	1.011CE+00	1.0105E+00	1.0072E+00	1.0023E+00	9.9757E-01	9.94695-01	9.9453E-01	9.9842E-01	1.0041E+60	1.0100E+00	1.0139E+00	1.0141E+00	1.0113E+00	1.0061E+00	1.0013E+00	9.9943E-01	1.0019E+00	1.0081E+00
NORWALIZED C E-PLANE		1.0503E+00	1.04395+00	1.0267E+30	1.0037E+00	9.8186E-01	9.6750E-01	9.6473E-01	9.74506-01	9.93765-01	1.0166E+00	1.03566+00	1.0435E+C0	1.0360E+30	1.0137E:00	9.8261E-01	9.5335E-01	9.3771E-01	9.4421E-01	9.7389€-01	1.01855+00	1.0622E+00	1.0871E+00	1.0804E+00	1.0411E+00	9.82065-01	9.2686E-01	9.0041E-01	9.1768E-01	9.7489E-01	1.0483E+00	1.1027E+00
ANGLE	1 1 1 1 1 1 1 1 1 1	0.0	5.0	4 .0	6.0	9 .0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	26.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

1.738E+00 1.2037E+00 1.3267E+00 1.3267E+00 1.3267E+00 1.3776E+00 1.5677E+00 1.5677E+00 1.5677E+00 1.5677E+00 1.5678E+00 1.5678E+00 1.5678E+00 1.5678E+00 1.5678E+00 1.5678E+00 1.5678E+00 1.5688E+00 1.5678E+00 1.5678E+00 1.3689E+00 1.3768E+00 1.3768E+00 1.3757E+01 1.3757E+01 1.3757E+01 1.3757E+01 1.3757E+01 1.54136.00 1.54136.00 1.54136.00 1.54136.00 1.54136.00 2.29316.01 2.29316.01 2.29316.01 3.48296.01 1.7946.01 1.709.76.00 3.346.60 3.34 1.02126 + 0.00 1.02126 + 0.00 1.02206 + 0.00 1.01226 + 0.00 1.01226 + 0.00 1.01226 + 0.00 1.02226 + 0.00 1.02736 + 0.00 1.02736 + 0.00 1.02736 + 0.00 1.02736 + 0.00 1.02746 + 0.00 E-PLANE
1.155E+00
1.1159E+00
1.0618E+00
9.6608E-01
8.4738E-01
1.0207E+00
1.1792E+00
1.1793E+00
ANGLE 1.0993E+00 1.0957E+00 1.0737E+00 1.0572E+00 1.0391E+00 1.0056E+00 9.9547E+01 9.8926E+01 9.8926E+01 9.9647E+01 9.9667E+01 1.0083E+00 1.0108E+00 E-PLANE
1. 0986E + 00
1. 0898E + 00
1. 0888E

GLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=13.4

S SECTION H-PLANE	.1705E+00	. 1950E+00	.2289E+00	.27136+00	.3180E+00	.3588E+00	.3813E+00	.3861E+00	.4022E+00	.4785E+00	.6435E+00	.8568E+00	2.0070E+00	.9963E+00	.8717E+00	.8853E+00	2.3600E+00	3.3781E+00	4.5161E+00	4.9670E+00	4.2326E+00	3.1484E+00	4.5612E+00	1.2892E+01	3.2311E+01	6.4133E+01	.0482E+02	.4595E+02	.7677E+02	.8822E+02	
CROSS	-	-	-	=	-	=	_	-	-	_	_	_	••	-	-	_				4		••	4	-	 m	9	-	_	_	_	
NORMALIZED CROSS SECTION	1.0594E+00	1.5453E+00	1.6591E+00	1.2621E+00	6.1333E-01	2.1737E-01	4.4780E-01	1.2230E+00	2.0040E+00	2.1938£+00	1.5756E+00	5.8185E-01	1.0106E-02	4.49%6E-01	1.8115E+00	3.3374E+00	4.0981E+00	3.6216E+00	2.2192E+00	8.7253E-01	9.2614E-01	3.9420E+00	1.1775E+01	2.6500E+01	4.9724E+01	8.1261E+01	1.1786E+02	1.5305E+02	1.7876E+02	1.8822E+02	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE	1.0024E+00	1.0087E+00	1.0166E+00	1.0222E+00	1.0230E+00	1.0187E+00	1.0124E+00	1.0087E+00	1.0112E+00	1.0200E+00	1.0313E+00	1.0393E+00	1.0402E+00	1.0346E+00	1.0277E+00	1.0266E+00	1.0350E+00	1.0505E+00	1.0659E+00	1.0738E+00	1.0722E+00	1.0664E+00	1.0653E+00	1.0754E+00	1.0958E+00	1.1191E+00	1.1367E+00	1.1455E+00	1.1494E+00	1.1559E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1.0464E+00	1.1121E+00	1.1220E+00	1.0632E+00	9.608GE-01	8.6954E-01	8.4524E-01	9.1095E-01	1.0369E+00	1.1506E+00	1.1769E+C0	1.0861E+00	9.2206E-01	7.8398E-01	7.6848E-01	9.0215E-01	1,1114E+00	1.2582E+00	1,2285E+00	1.0190E+00	7.5753E-01	6.2964E-01	7.4900E-01	1.0597£+00	1.3518E+00	1.3984E+00	1.1296E+00	7.1209E-01	4.5500E-01	5.8665E-01	
ANGLE	62.0	64.0	0.99	0.89	70.0	72.0	74.0	76.0	78.0	BO.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
IRMALIZED CROSS SECTION E-PLANE H-PLANE	1 05305+00	1.05226+00	1.0498E+60	1.0457E+00	1.0337E+00	1.0319E+00	1.02278+00	1.012BE+00	1.0032E+00	9,95268-01	9.90175-01	9.886cE-01	10-30006.6	9.95436-01	1.0024E+00	1.0084E+00	1.01205+00	1.0123E+00	1.0033E+00	1,00456+00	9.99475-01	9.9648E-01	9.9765E-01	1.0016E+00	1.0072E+00	1,01216+00	1.0142E+00	1.0124E+C0	1.0078E+00	1.0027E+00	1.0003E+00
NORMALIZED E-PLANE	1 05305+00	1.05c0E+00	1.0410E+00	1.0266E+00		9.85448-01	9.63405-01	9.45695-01	9.37376-01	9.42725-01	.63195	9.95701-01	1.0325£ +00	1.06275+00	1.07578+00	1.0656€ +00	1.0337F+00	9.89528-01			9.33175-01	9.6841E-01		1.0633E+00	1.0800E - 00	1.0580E+00	1.0037E+00	9.4063E-01	9.0041E-01	9.0736E-01	9.6410E-01
ANGLE		0.0	4	9	0.80	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=13.6

CROSS SECTION	H-PLANE		1.1697E+00	1.1897E+00	1.2196E+00	1.2600E+00	1.3089E+00	1.3572E+00	1.3893E+00	1.3975E+00	1.4026E+00	1.4558E+00	1.6023E+00	1.8231E+00	2.0117E+00	2.0435E+00	1.9198E+00	1.8683E+00	2.2474E+00	3.2259£+00	4.4509E+00	5.0840E+00	4.4702E+00	3.2546E+00	4.2340E+00	1.2050E+01	3.1316E+01	6.3776E+01	1.0598E+02	1.4912E+02	1.81645+02	1.9376E+02	
NORMALIZED C	E-PLANE	1 1 1 1 1 1 1 1 1 1 1	8.2219E-01	1.3706E+00	1.6871E+00	1.4811E+00	8.58778-01	2.93916-01	2.8347E-01	9.3350E-01	1.8139E+00	2.2461E+00	1.8398E+00	8.5312E-01	7.4226E-02	2.4218E-01	1.46GE+00	3.08536+00	4.1025E+00	3.874HE+00	2.557:1E+00	1.0720E+00	8.0058E-01	3.3948E+00	1.0854E+01	2.5430E+01	4.8965E+01	8.1451E+01	1.1960E+02	1.56598+02	1.8375E+02	1.9376E+02	
	ANGLE	11111	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CROSS SECTION	H-PLANE		1.0014E+00	1.0035E+00	1.0099E+00	1.0179E+00	1.0234E+00	1.0237E+00	1.0190E+00	1.0127E+00	1.0098E+00	1.0135E+00	1.0234E+00	1.0347E+00	1.0415E+00	1.0406E+00	1.0340E+00	1.0283E+00	1.0302E+00	1.0417E+00	1.0585E+00	1.0721E+00	1.0765E+00	1.0727E+00	1.0682E+00	1.0719E+00	1.0876E+00	1.1107E+00	1.1325E+00	1.1464E+00	1.1531E+00	1.1586E+00	
NORMALIZED CI	E-PLANE	1 1 1 1 1 1 1 1	9.6040E-01	1.0455E+00	1.1133E+00	1.1211E+00	1.0558E+00	9.4716E-01	8.5597E-01	8.4130E-01	9.21995-01	1.0577E+00	1.1656E+00	1.1694E+00	1.0517E+00	8.7687E-01	7.5865E-01	7.8798E-01	9.6356E-01	1.1776E+00	1.2775E+00	1.1729E+00	9.13596-01	6.7464E-01	6.4202E-01	8.6957E-01	1.2154E+00	1,4230E+00	1.3078E+00	9,1786E-01	5,3117E-01	4.6530E-01	
	ANGLE	1 1 1 1	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION	H-PLANE		9.61635-01	9.6371E-01	9.69615-01	9.78285-01	9.8323E-01	9.9771E-01	1.00515+00	1.0093E+00	1.0099E+00	1.0073E+00	1,0029E+00	9.9827E-01	9.95125-01	9.9461E-01	9.96995-01	1.0015E+00	1.0066E+00	1.0104E+00	1,01165+00	1.0096E+00	1.0052E+00	1.0003E+00	9.9702E-01	9.9700E-01	1.0005E+00	1.0063E+00	1.0118E+00	1.0146E+00	1.0134E+C0	1.0090E+00	1.0040E+00
NORMAL 17FD C	,	1 1 1 1 1 1 1 1	9.81635-01	9.6717F-01	9 8227F - 01	1.0027E+00	1.02235+00	1.0348E+00	1.0356E+00	1.0239E+00	1.0032E+00	9.80945-01	9.6582E-01	9.64745-01	9.7975F-01	1.0067€+00	1.03615+00	1.0560E+00	1.05675+00	1,034BE+00	9.95835-01	9.53555-01	9.25498-01	9.2580E-01	9.58056-01	1.01152+00	1.0638E+00	1.0896E+00	1.0734E+00	1.0188E+00	9.5009E-01	9.0234E-01	9.04165-01
	ANGLE		c	0	4		0	10.01	12.0	0.4	16.0	18.0	20.0	22.0	0.40	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	0.44	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

H-PLANE
H-PLANE
1.1708E+00
1.292E+00
1.292E+00
1.297E+00
1.3942E+00
1.4091E+00
1.4076E+00
1.4091E+00
1.4076E+00
CROSS S 6. 1618E-01 1. 147.4E+00 1. 630.9E+00 1. 1173E+00 1. 1173E+00 1. 1567.4E+00 2. 175E+00 3. 175E+00 3. 175E+00 4. 0433E+00 5. 175E+00 0.049E+00 1.0044E+00 1.0044E+00 1.011E+00 1.019E+00 CROSS SECTION H-PLANE E-PLANE 6.9628E-01 1.0442E-01 1.10442E-01 1.10442E-01 1.10442E-01 1.10443E-01 1.10443E-01 1.10443E-01 1.10442E-01 1.1046E-00 1.1046E-00 1.1044E-00 1.1044E-00 1.2041E-00 1.20414E-00 1.20414E-00 1.20414E-01 ANGLE 642.0 664.0 665.0 666.0 667.0 772.0 14756 E 0 1 1755 E 0 1 SECTION-PLANE CROSS

INGLE IN DECREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

(A=14.0

ANGLE E-PLANE H-PLANE	4.7222E-01	124.0 9.0344E-01 1.1861E+00	1.4759E+00 1	128.0 1.7118E+00 1.2391E+00	-	132.0 6.6264E-01 1.3426E+00	134.0 1.9876E-01 1.3951E+00	136.0 4.3497E-01 1.4213E+00	138.0 1.2849E+00 1.4201E+00	140.0 2.1110E+00 1.4330E+00	142.0 2.2134E+00 1.5290E+00	144.0 1.4404E+00 1.7378E+00	3.9521E-01	1.5758E-02	150.0 8.2715E-01 2.0340E+00	2.4753E+00	3.93HSE+00	156.0 4.2595E+00 2.9125E+00	158.0 3.2309E+00 4.2486E+00	160.0 1.5807E+00 5.2390E+00	162.0 7.1639E-01 4.9396E+00	2.4657E+00	166.0 9.0869E+00 3.7289E+00	168.0 2.3240E+01 1.0442E+01	4.7276E+01	172.0 8.1602E+01 6.2850E+01	174.0 1.2290E+02 1.0810E+02	176.0 1.6363E+02 1.5539E+02	178.0 1.9387E+02 1.9153E+02	180.0 2.0508E+02 2.0508E+02
H-PLANE	1.0104E+00	1.0052E+00	1.0027E+00	1.0053E+00	1.01248+00	1.0205E+00	1.0253E+00	1.0242E+00	1.0185E+00	1.0129E+00	1.0127E+00	1.0199£+00	1.0318E+00	1.0419E+00	1.0448E+00	1.0402E+00	1.0336E+00	1.0328E+00	1.0423E+00	1.0590E+00	1.0746E+00	1.0815E+00	1.0793E+00	1.0753E+00	1.0790E+00	1.0947E+00	1.11815+00	1.1405E+00	1.1558E+00	1.1648E+00
NORMALIZED CRUSS SECTION E-PLANE H-PLANE	B.9064E-01	8.9145E-01	9.55246-01	1.0505E+00	1,1211E+00	1,1184E+00	1,0343E+00	9.1391E-01	8.3356E-01	8.5390E-01	9.7386E-01	1.1219E+00	1,195;£+00	1.12952+00	9.53935-01	7.83776-01	7.4786E-01	8.9149E-01	1.1274E+00	1,2825E+00	1.2218£+00	9.62966-01	6.8725E-01	6.1728E-01	8.3940E-01	1.2095E+00	1,4373E+00	1.3100E+00	8.86815-01	4.9123E-01
ANGLE	62.0	64.0	0.99	68.0	70.0	72.0	74.0	0.94	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0
CROSS SECTION H-PLANE	9.5556E-01	9.5620E-01	9.5823E-01	9.6194E-01	9.6750E-01	9.7523E-01	9.8439E-01	9.9414E-01	1,0032E+00	1.0101E+00	1.0138E+00	1.01386+00	1.0104E+00	1.00 19E+00	9.9918E-01	9.950SE-01	9.939-16-01	9.9627E-01	1.000 !E+00	1.00616+00	1.0098E+00	1.010GE+00	1.0081E+00	1.0038E+00	9.9989E-01	9.98678-01	1.0011E+00	1.0065E+00	1.0123E+00	1.0156E+00
NORMALIZED CR	9.55565-01	9.58118-01	9.6612E-01	9.8018E-01	9.9992E-01	1.0230E+00	1.0449E+00	1.0598E+00	1.0626E+30	1.0503E+00	1.0244E+00	9.3036E-01	9.5768E-01	9.3692E-01	9.36356-01	9.58276-01	9.96738-01	1.0382t+00	1.0662E+00	1.06750+00	1.0395E+00	9.92734-01	9.48022-01	9.2766F-01	9.4436E-01	9.93116-01	1.0511E+00	1.0872E+00	1.0781E+00	1.0226E+00
ANGLE	0.0	5.0	4.0	0.9	6 0.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=14.2

SS SECTION H-PLANE	0013617	70.10101	1.18705+00	1.2042E+00	1.2311E+00	1.2730E+00	1.3308E+00	1.3916E+00	1.4303E+00	1.4339E+00	1.4331E+00	1.5009E+00	1.6913E+00	1.9557E+00	2.1351E+00	2.0933E+00	1.92296+00	2.0080E+00	2.7593E+00	4.1166E+00	5.2741E+00	5.1627€+00	3.7683E+00	3.55136+00	9.6842E+00	2.8178E+01	6.2285E+01	1.0906E+02	1.58505+02	1.9654E+02	2.1085E+02	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		000000	6.802RE-01	1.26°5E+00	1.6985E+00	1.5624E+00	9.1351E-01	2.8352E-01	2.6917E-01	9.9577E-01	1.9366E+00	2.3021E+00	1.7210E+00	6.3250E-01	3.7935E-03	5.5710E-01	2.1394E+00	3.77GBE+00	4.3823E+00	3.5512E+00	1.8782E+00	7.5424E-01	2.0809E+00	8.2509E+00	2.2132E+01	4.6351E+01	8.1503E+01	1.2446E+02	1.6715E+02	1.9901E+02	2.1085E+02	
ANGLE		0.22.	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE	1000	1.0149E+00	1.0105E+00	1.0054E+00	1.0033E+00	1,0066E+00	1.0143E+00	1.0224E+00	1.0265E+00	1.0244E+00	1.01B3E+00	1.0136E+00	1.0152E+00	1.0244E+00	1.0367E+00	1.0453E+00	1.0457E+00	1.0396E+00	1.0343E+00	1.0375E+00	1.0508E+00	1.0685E+00	1.0813E+00	1.0841E+00	1.0803E+00	1.0794E+00	1.0894E+00	1.1101E+00	1.1343E+00	1.1539£+00	1.1665E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1 0 1 1 1 1 1 1 1	9.4566E-01	8.8894E-01	8.9309E-01	9.6386E-01	1.0642E+00	1,1316E+00	1,1163E+00	1.0175E+00	8.9226E-01	8.2486E-01	8.7081E-01	1,0115E+00	1,1554E+00	1.1948E+00	1.0846E+00	8.8797E-01	7.4467E-01	7.7392E-01	9.75556-01	1,2104E+00	1,2911E+00	1.128BE+00	8.2347E-01	6.1080E-01	6.8382E-01	1.0204E+00	1.3675E+00	1.4249E+00	1.1018E+00	6.3067E-01	
ANGLE		0.20	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	0.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.0405E+00	1.0383E+00	1.0319E+00	1.022BE+00	1.0126E+00	1.0035E+00	9.9698E-01	9.9404E-01	9.9472E-01	9.9814E-01	1.0028E+00	1.0069E+00	1.0090E+00	1.0083E+00	1.0051E+00	1.0007E+00	9.9688E-01	9.9527E-01	9.9672E-01	1.0008E+00	1.0060E+00	1.0102E+00	1.0115E+00	1.0094£+00	1.0051E+00	1.000BE+00	9.9898E-01	1.001CE+00	1.0062E+00	1.0121E+00	1.0157E+00
NORMALIZED C E-PLANE		1.0406E+00	1.0345E+00	1.0182E+00	9.9762E-01	9.7991E-01	9.71215-01	9.74505-01	9.8864E-01	1.0086E+00	1.0268E+00	1.0356E+00	1.0300E+00	1.01035+00	9.8264E-01	9.58205-01	9.4860E-01	9.6089E-01	9.9317E-01	1.03385+00	1.0552E+00	1.0713E+00	1.0460E+00	9.975 E-01	9.4685E-01	9.19135-01	9.30885-01	9.7974E-01	1.0427E+00	1.0854E+00	1.0806E+00	1.0250E+00
ANGLE		0.	5.0	4.0	0.9	8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

Boom socional microscal respectativement property bescential messessativement a espainal respect final

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=14.4

CROSS SECTION	H-PLANE		11/785400	1.18895+00	1.2035E+00	1.2256E+00	1.2618E+00	1.3173E+00	1.3839E+00	1.4356E+00	1.4487E+00	1.4399E+00	1.4806E+00	1.6456E+00	1.9170£+00	2.1430E+00	2.1499E+00	1.9701E+00	1.9664E+00	2.6138E+00	3.9685E+00	5.2805E+00	5.3730E+00	3.9920E+00	3.4230E+00	8.9623E+00	2.7097E+01	6.1658E+01	1.0995E+02	1.6160E+02	2.0161E+02	2.1671E+02	
٥	E-PLANE		4.4275E-01	5.0762E-01	1.0318E+00	1.6002E+00	1.6969E+00	1.1730E+00	4.4251E-01	1.7902E-01	7.2114E-01	1.7073E+00	2.3160E+00	1.9696E+00	9.0322E-01	5.89416-02	3.3339E-01	1.7971E+00	3.56CBE+00	4.4535E+00	3.8506E+00	2.1962E+00	8.4216E-01	1.75176+00	7.4496E+00	2.1016E+01	4.5372E+01	B.1445E+01	1.2597E+02	1.7066E+02	2.0421E+02	2.1671€+02	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
POSS SECTION	H-PLANE	• • • • • • • • • • • • • • • • • • • •	1.0161E+00	1.0154E+00	1.0108E+30	1.0059E+00	1.0044E+00	1.0085E+00	1.0167E+00	1.0246E+00	1.0277E+00	1.0244E+00	1.0180E+00	1.0146E+00	1.0185E+00	1.0295E+00	1.0416E+00	1.0479€+00	1.0456E+00	1.0389E+00	1.0364E+00	1.0441E+00	1.0606E+00	1.0775E+00	1.0862E+00	1.0855E+00	1.0824E+00	1.0868€+00	1.1031E+00	1.1269E+00	1.1498E+00	1.1663E+00	
NORMALIZED CROSS SECTION	E-PLANE		1.0282E+00	9.4432E-01	8.8654E-01	8.9605E-01	9.750BE-01	1.07885+00	1.1384E+00	1.1056E+00	9.9069E-01	8.6497E-01	8.1842E-01	8.9567E-01	1.0544E+00	1.1835E+00	1,1776E+00	1.0220E+00	8.1895E-01	7.2488E-01	8.3107E-01	1.0772E+00	1.2765E+00	1.2534E+00	9.95446-01	6.9106E-01	5.9821E-01	8.2845E-01	1.2241E+00	1.4557E+00	1.2921E+00	8.2619E-01	
	ANGLE		62.0	64.0	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION	H-PLANE	11111111	1.0857E+00	1.0826E+00	1.0737E+00	1.0603E+00	1,0440E+00	1.0270E+00	1.0115E+00	9,9937E-01	9.9193E-01	9.8954E-01	9.9159E-01	9.9656E-01	1.0024E+00	1.0070E+00	1.0089E+00	1.0077E+00	1.0042E+00	1.0001E+00	9.9744E-01	9.97546-01	1.0006E+00	1.0052E+00	1.0095E+00	1.0112E+00	1.0096E+00	1.00548+00	1.0010E+00	9.9906E-01	1.0010E+00	1.0064E+00	1.0125E+00
NORMALIZED C	E-PLANE		1.0857E+00	1.0765E+00	1.0511E+00	1.0156E+00	9.7844E-01	9.4822E-01	9.3218E-01	9.3431E-01	9.5417E-01	9.8636E-01	1.0213E+00	1.0476E+00	1.0558E'00	1.0426E+00	1.0127E+00	9.7820E-01	9.5424E-01	9.5252E-01	9.7549E-01	1.0140E+00	1.0499E+00	1.0643E+00	1.0463E+00	1.0010E+00	9.4866E-01	9.1689E-01	9.2604E-01	9.7630E-01	1.0439E+00	1.0913E+00	1.0873E+00
	ANGLE	11111	0.0	9.0	0.4	9	9.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	98.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

CROSS SECTION	H-PLANE		1.1790E+00	1.1912E+00	1.2046E+00	1.2227E+00	1.2527E+00	1.3034E+00	1.3726E+00	1.4365E+00	1.4627E+00	1.4521E+00	1.4687E+00	1.6034E+00	1.8714E+00	2.1382E+00	2.2007E+00	2.0274E+00	1.9449E+00	2.4791E+00	3.8076E+00	5.2582E+00	5.5668E+00	4.2353E+00	3.3433E+00	8.2789E+00	2.6005E+01	6.0972E+01	1.10786+02	1.6468E+02	2.0673E+02	2.2265E+02	
NORMAL12ED C	E-PLANE		5.5614E-01	4.08565-01	7.941PE-01	1.420E+00	1.7501E+00	1.4122E+00	6.577RE-01	1.70-12E-01	4.82146-01	1.4304E+00	2.2542E+00	2.1710E+00	1,1919E+00	1.77125-01	1.6341E-01	1.4539E+00	3.3141E+00	4.4708E+00	4.122PE+00	2.5289E+00	9.76435-01	1.4730E+00	6.6854E+00	1.9896E+01	4.4342E+01	8.1249E+01	1.2741E+02	1.7416E+02	2.0946E+02	2.2265E+02	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE		1.0135E+00	1.0170E+00	1.0159E+00	1.0111E+00	1.0063E+00	1.0055E+00	1.0106E+00	1.0193E+00	1.0267E+00	1.0283E+00	1.0239E+00	1.0176E+00	1.0161E+00	1.0227E+00	1.0351E+00	1.0461E+00	1.0495E+00	1.0448E+00	1.0389E+00	1.0405E+00	1.0529E+00	1.0710E+00	1.0852E+00	1.0895E+00	1.0869E+00	1.0871E+00	1.0980E+00	1.1195E+00	1.1440E+00	1.1643E+00	
NORMALIZED CROSS SECTION	E-PLANE		1.0894E+00	1.0239E+00	9.3512E-01	8.7903E-01	8.9760E-01	9.8703E-01	1.0928E+00	1.1404E+00	1.0864E+00	9.5657E-01	8.3750E-01	8.2101E-01	9.3340E-01	1.1035E+00	1.2033E+00	1.1416E+00	9.4578E-01	7.58335-01	7.3688E-01	9.2237E-01	1.1844E+00	1.3061E+00	1.1603E+00	8.37115-01	5.9939E-01	6.7332E-01	1.0364E+00	1.3978E+00	1.4241E+00	1.0437E+00	
	ANGLE		62.0	64.0	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	95.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
D CROSS SECTION	H-PLANE	1 1 1 1 1 1 1 1	1.0489E+00	1.0478E+00	1.04495+00	1.0400E+00	1.0331E+00	1.0246E+00	1.0151E+00	1.0057E+00	9.9757E-01	9.9212E-01	9.9020E-01	9.9192E-01	9.9550E-01	1.0023E+00	1,0075E+00	1.0101E+00	1.0096E+00	1.00@3E+00	1.0018E+00	9.9815E-01	9.97176-01	9.99385-01	1.0038E+00	1.0084E+00	1.0107E+00	1.0097E+00	1.0059€+00	1.0016E+00	9.9967E-01	1.0017E+00	1.0072E+00
NORMAL12ED C	E-PLA:		1.0"88E+00		1.0350E+00	1.0189E+00	9.9858E-01	9.76805-01	9.5768E-01	9.4634E-01	9.47616-01	9.63776-01	9.9249E-01	1.9262E+00	1.0537E+00	1.06435+00	1.0523E+00			9.47436-01	9.37255-01	9.55716-01	9.9600E-01	1.0397E+00		1.0550E+00	1.0127E+00	9.58035-01	9.21451-01	9.2730E-01	9.7765E-01	1.0480E+00	1.0965E+00
	ANGLE		0.0	5.0	4.0	0.9	8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0 50.0	52.0	54.0	56.0	58.0	0.09

NGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=14.8

	NORMALIZED C	ZED CROSS SECTION		NORMALIZED C	NORMALIZED CROSS SECTION	,	NORMAL I ZED	NORMALIZED CROSS SECTION
ANGLE	E-PLA:1E	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-of ANE	H-PLANE
			1					1 1 1 1 1 1 1 1 1 1
• •	9.6904E -01	9.6904E-01	62.0	1.09666+00	1.0083E+00	122.0	7.3382E-01	1.1787E+00
5.0		9.7105E-01	64.0	1.0849E+00	1.0145€+00	124.0	3.95156-01	1.1930E+00
4.0	•	9.7667E-01	0.99	1.0126E+00	1.0177E+00	126.0	5.88696-01	1.2066E+00
9	1.00706+00	9.8473E-01	68.0	9.2072E-01	1.0160E+00	129.0	1.20ABE+00	1.2221E+00
0.6	1.0228E+00	9.93558-01	70.0	8.7054E-01	1.0109E+00	130.0	1.7168E+00	1.2462E+00
10.0	1.0299E+00	1.0013E+00	72.0	9.02786-01	1.0064E+00	132.0	1.6056E+00	1.2902E+00
12.0	1.0249E+00	1.0065E+00	74.0	1.0047E+00	1.0067E+00	134.0	9.0694E-01	1.3586E+00
14.0	1.0094E+00	1.0083E+00	76.0	1.1101E+00	1.0129E+00	136.0	2.4224E-01	1.4325E+00
16.0	9.89335-01	1.0069E+00	78.0	1.1402E+00	1.0220E+00	138.0	2.9713E-01	1.4742E+00
18.0	9.7366E-01	1.0033E+00	80.0	1.0615E+00	1.0285E+00	140.0	1.1530E+00	1.4680E+00
20.0	9.70196-01	9.9906E-01	82.0	9.19335-01	1.0285E+00	142.0	2.1214E+00	1.4652E+00
22.0	9.8202E-01	9.9606E-01	84.0	8.1606E-01	1.0230E+00	144.0	2.3135E+00	1.5667E+00
24.0	1.00565+00	9.95508-01	86.0	8.3879E-01	1.0176E+00	146.0	1.4827E+00	1.8213E+00
26.0	1.03138+00	9.9765E-01	88.0	9.8627E-01	1.0185E+00	148.0	3.5140E-01	2.1208E+00
28.0		1.0017E+00	0.06	1,1549E+00	1.0279E+00	150.0	5.2606E-02	2.2429E+00
30.0	1.0443E+00	1.0061E+00	92.0	1,2073E+00	1.0410E+00	152.0	1.13596+00	2.0917E+00
32.0		1.0089E+00	94.0	1.0827E+00	1.0500E+00	154.0	3.0262E+00	1.94306+00
34.0		1.0090E+00	0.96	8.6110E-01	1.0500E+00	156.0	4.4348E+00	2.3583E+00
36.0		1.0063E+00	0.86	7.1852E-01	1.0440E+00	158.0	4.3629E+00	3.6375E+00
38.0	9.3523E-01	1.0021E+00	100.0	7.89325-01	1.0405E+00	160.0	2.8701E+00	5.2076E+00
40.0	9.5065E-01	9.9826E-01	102.0	1.0408E+00	1.0471E+00	162.0	1.1547E+00	5.7406E+00
42.0	9.9187E-01	9.9688E-01	104.0	1,2743E+00	1.0635E+00	164.0	1.2599E+00	4.4938E+00
44.0	1.0407E+00	9.9880E-01	106.0	1,2769€+00	1.0812E+00	166.0	5.9623E+00	3.31056+00
46.0		1,0033E+00	108.0	1.0124E+00	1.0912E+00	168.0	1.8780E+01	7.6361E+00
48.0		1.0082E+00	110.0	6.83976-01	1.0916E+00	170.0	4.3269E+01	2.4906E+01
50.0	1.0234E+00	1.0111E+00	112.0	5,85466-01	1.0897E+00	172.0	8.0979E+01	6.0223E+01
52.0		1.0105E+00	114.0	8,4162E-01	1.0955E+00	174.0	1.2878E+02	1.1154E+02
54.0		1.0069E+00	116.0	1.2630E+00	1.1130£+00	176.0	1.7765E+02	1.6774E+02
26 .0		1.0025E+00	118.0	1,4750€+00	1.1373E+00	178.0	2.1477E+02	2.1190E+02
98	9.7590E-01	1.0005E+00	120.0	1.2460E+00	1.1605E+00	180.0	2.2868E+02	2.2868E+02
0.09		1.0027E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=15.0

S SECTION H-PLANE	.1765E+00	.1938E+00	.208BE+00	. 2232E+00	2424E+00	2788E+00	3431E+00	.4237E+00	.4816E+00	.4857E+00	.4695E+00	.5371E+00	.7692E+00	2.0916E+00	2.2745E+00	2.1597E+00	1.95956+00	2.2538E+00	3.4619E+00	5.1299E+00	5.8915E+00	4.7631E+00	3.3229E+00	7.0362E+00	2.3802E+01	5.9414E+01	. 1222E+02	1.7077E+02	2.1710E+02	2.3477E+02	
CROSS	-	=	-	-	-	-		-	-	+	4.	-	-	5.0		~		2.2	3.4		5.8	4.7	e. e	7.0	8	8.9	-	1.7		2.3	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	9.4616E-01	4.6760E-01	4.4145E-01	9.6628E-01	1.6025E+00	1.7338E+00	1,1652E+00	3.8621E-01	1.8023E-01	8.6951E-01	1.9279E+00	2.3878E+00	1.7604E+90	5.7262E-01	4.18F3E-03	8.3893E-01	2.7124E+00	4.3475E+00	4.5654E+00	3.21335+00	1.3712E+00	1.0974E+00	5.284BE+00	1.7673E+01	4.2157E+01	B.0636E+01	1.3009E+02	1.8113E+02	2.2012E+02	2.3477E+02	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1.0034E+00	1.0093E+00	1.0154E+00	1.0181E+00	1.C158E+00	1.0105E+00	1.0067E+00	1.0083E+00	1.0158E+00	1.0250E+00	1.0302E+00	1.0284E+00	1.0222E+00	1.0183E+00	1.0224E+00	1.0342E+00	1.0469E+00	1.0528E+00	1.0497E+00	1.0438E+00	1.0444E+00	1.0564E+00	1.0749E+00	1.0900E+00	1.0952E+00	1.0937E+00	1.0955E+00	1.1081E+00	1.1304E+00	1.1552E+00	
NORMALIZED C E-PLANE	1.0499F+00	1.0979E+00	1.0801E+00	1.0001E+00	9.06966-01	8.66835-01	9.1670E-01	1.0310E+00	1. 1306E+00	1,1355E+00	1.0285E+00	8.7966E-01	8.0404E-01	8.7380E-01	1.0501E+00	1.1976E+00	1.1844E+00	9.9849E-01	7.78126-01	7.1371E-01	8.8450E-01	1.1676E+00	1.3176E+00	1.1751E+00	8.3090E-01	5.8122E-01	6.7790E-01	1.0781E+00	1.4378E+00	1.4004E+00	
ANGLE	62.0	64.0	0.99	68.0	10.0	72.0	74.0	0.97	78.0	80.0	82.0	84.0	96.0	88.0	90.06	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION E-PLAME H-PLAME	9 2526F-01	9.28185-01	9.36-7E-01	9.4933E-01	9.6476E-01	9.8073E-01	9.9501E-01	1.0057E+00	1.0115E+00	1.0125E+00	1.0094E+00	1.0043E+00	9.9923E-01	9.9621E-01	9.9622E-01	9.9899E-01	1,0031E+00	1.0067E+00	1.0031E+00	1.0055E+00	1.0030E+00	9.9935E-01	9.9772E-01	9.99316-01	1.0036E+00	1.0086E+00	1.0117E+00	1.0111E+00	1.0074E+00	1.0030E+00	1.0010E+00
NORMALIZED E-PLAME	9 2526F-01	9.33925-01	9.5802E-01	9.9214E-01	1.3280E+00	1.0562E+00	1.06875+00	•	•	1.0032E+00	9.7142E-01	9.5303E-01	9.5471E-01	9.75746-01	1.0074E+00	1.0357E+00	1.0470E+09	1.0342E+00	1.00176+00	9.6478E-01	9.4347E-01	9.51978-01	9.8972E-01	1.0391E+00	1.0728E+00	1.0687E+00	1.0240E+00	9.6061E-01	9.1520E-01	9.18386-01	9.7352E-01
ANGLE		0.0	4	0.9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	45.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=15.2

ANGLE	NORMALIZED (E-PLANE	ZED CROSS SECTION	ANGLE	NORMALIZED C E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
		1 1 1 1 1 1 1 1 1 1 1						
<u>د</u>	9.58155-01	9.5815E-01	62.0	9.7839E-01	1.0013E+00	122.0	1.1611E+00	1.1728E+00
2.0	9.6128E-01	9.5900E-01	64.0	1.0590E+00	1.0042E+00	124.0	6.14166-01	1.1930E+00
4.0	9,70541-01	9.6163E-01	0.99	1.1041E+00	1.0105E+00	126.0	3.7170E-01	1.2104E+00
6.0	9.86815-01	9.66235-01	68.0	1.0764E+00	1.0165E+00	128.0	7.33146-01	1.2254E+00
60		9.7288E-01	70.0	9.8660E-01	1.0186E+00	130.0	1.4225E+00	1.2412E+00
10.0	·	9.8129E-01	72.0	8.9365E-01	1.0156E+00	132.0	1.78146+00	1.2699E+00
12.0		9.9067E-01	74.0	8.6795E-01	1.0102E+00	134.0	1.4072E+00	1.3273E+00
0.4		9.9975E-01	76.0	9.3837E-01	1.0073E+00	136.0	5.8977E-01	1.4109E+00
16.0		1.0071E+00	78.0	1.0623E+00	1.0106E+00	138.0	1.39786-01	1.4842E+00
18.0		1.0114E+00	80.0	1.1475E+00	1.0193E+00	140.0	6.0976E-01	1.5032E+00
20.0		1.0120E+00	82.0	1.1169E+00	1.0281E+00	142.0	1.6874E+00	1.4B06E+00
22.0	9.658GE-01	1.0092E+00	84.0	9.8360E-01	1.0315E+00	144.0	2.3963E+00	1.5160E+00
24.0	9.4619E-01	1.00435+00	86.0	8.3897E-01	1.0278E+00	146.0	2.01016+00	1.7177E+00
26.0		9.9904E-31	88.0	8.0531E-01	1.0216E+00	148.0	8.29335-01	2.0520E+00
28.0	9.6760E-01	9.95.19E-01	90.06	9.2612E-01	1.0202E+00	150.0	1.87216-02	2.2937E+00
30.0		9.9490E-01	92.0	1,1171E+00	1.0277E+00	152.0	5.7729E-01	2.2280E+00
32.0		9.973PE-01	94.0	1.2190E+00	1.0411E+00	154.0	2.3819E+00	1.9930E+00
34.0	1.0591E+00	1.0018E+00	96.0	1.1272E+00	1.0520E+00	156.0	4.2110E+00	2.1677E+00
36.0	1,0511E+00	1.0061E+00	98.0	8.9597E-01	1.0542E+00	158.0	4.7290E+00	3.284BE+00
38.0		1.00856+00	100.0	7.1529E-01	1.0489E+00	160.0	3.5519E+00	5.0270E+00
40.0		1.0073E+00	102.0	7.5808E-01	1.0451E+00	162.0	1.6219E+00	6.0173E+00
42.0	9.4444E-01	1.0346E+03	104.0	1.0155E+00	1.05126+00	164.0	9.90036-01	5.0388E+00
44.0	9.4523E-01	1.000kE+00	106.0	1.2747E+00	1.0676E+00	166.0	4.65526+00	3.3786E+00
46.0	9.7942E-01	9.9871E-01	108.0	1.2884E+00	1.0859£+00	168.0	1.6579E+01	6.4816E+00
48.0	1.0299E+00	9.9980E-01	110.0	1,0070E+00	1.0966E+00	170.0	4.1006E+01	2.2698E+01
50.0	1.0671E+00	1.0038E+00	112.0	6.6008E-01	1.0978E+00	172.0	8.0219E+01	5.85486+01
52.0	1.0657E+00	1.0087E+00	114.0	5.7738E-01	1.0975E+00	174.0	1.31335+02	1.1283E+02
54.0	1.02115+00	1.0118E+00	116.0	8.7902E-01	1.1053E+00	176.0	1.84595+02	1.7377E+02
56.0	9.5592E-01	1.0112E+00	118.0	1,3215E+00	1.1242E+00	178.0	2.25525+02	2.238E+02
58.0	9.1018E-01	1.0074E+00	120.0	1.4831E+00	1.1490E+00	180.0	2.4094E+02	2.4094E+02
0.09	9.1632E-01	1.0030E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=15.4

OSS SECTION H-PLANE		1.1678E+00	1.1908E+00	1.2110E+00	1.2279E+00	1.2422E+00	1.2640E+00	1.3126E+00	1.3950E+00	1.4814E+00	1.5186E+00	1.4970E+00	1.5040E+00	1.6695E+00	2.0041E+00	2.2999E+00	2.2935E+00	2.0411E+00	2.1016E+00	3.1101E+00	4.9011E+00	6.1162E+00	5.3171E+00	3.4753E+00	5.9741E+00	2.1600E+01	5.7631E+01	1.1337E+02	1.7675E+02	2.2766E+02	2.4720E+02	
NORMALIZED CROSS SECTION E-PLANE M-PLANE	1 1 1 1 1 1 1 1 1 1 1	1.3446E+00	8.1214E-01	3.8720E-01	5.3807E-01	1.1932E+00	1.7530E+00	1.6089E+00	8.3152E-01	1.7742E-01	3.9207E-01	1.4158E+00	2.3326E+00	2.2181E+00	1.1084E+00	9.4130E-02	3.5908E-01	2.0433E+00	4.0280E+00	4.8464E+00	3.8796E+00	1.9024E+00	9.3636E-01	4.0748E+00	1.5499E+01	3.9820E+01	7.9726E+01	1.3251E+02	1.8804E+02	2.3098E+02	2.4720E+02	
ANGLE	11111	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	178.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.0031E+00	1.0019E+00	1.0055E+00	1.0122E+00	1.0180E+00	1.0192E+00	1.0153E+00	1.0100E+00	1.0085E+00	1.0136E+00	1.0232E+00	1.0310E+00	1.0320E+00	1.0268E+00	1.0215E+00	1.0234E+00	1.0342E+00	1.0479E+00	1.0558E+00	1.0541E+00	1.0484E+00	1.0489E+00	1.0609E+00	1.0798E+00	1.0953E+00	1.1009E+00	1.1007E+00	1.1047E+00	1.1194E+00	1.1426E+00	
NORMALIZED C E-PLANE		9.2122E-01	9.8962E-01	1.0723E+00	1.1098E+00	1,0675E+00	9.6665E-01	8.7773E-01	8.7228E-01	9.6539E-01	1,0936E+00	1.1544E+00	1.0863E+00	9.2855E-01	8.0449E-01	8.26895-01	9.95556-01	1.1782E+00	1.2090E+00	1,0369E+00	7.9254E-01	6.9559E-01	8.5898E-01	1.1617E+00	1.3280E+00	1.1734E+00	B.0420E-01	5.58876-01	7.0353E-01	1.14846+00	1.4820E+00	
ANGLE		62.0	64.0	0.99	68.0	20.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	96.0	88.0	0.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION E H-PLANE	111111111	1.0326E+00	1.0304E+00	1.0244E+00	1.0160E+00	1.0072E+00	1.0000E+00	9.9576E-01	9.9504E-01	9.9735E-01	1.0013E+00	1.0052E+00	1.0073E+00	1.0069E+00	1.0041E+00	1.0002E+00	9.9697E-01	9.9603E-01	9.9796E-01	1.0020E+00	1.0064E+00	1.0090E+00	1.0086E+00	1.0054E+00	1.0014E+00	9.9893E-01	9.9973E-01	1.0037E+00	1.0086E+00	1.011BE+00	1.0112E+00	1.0073E+00
NORMALIZED C E-PLANE		1.0326E+00	•			•	- 1		1.0006E+00		-		•		•	1.	- 1	1.0024E+00	-	-			ī	9.38215-01	-		-		+		9.5482E-01	9.0941E-01
ANGLE	1	0.0	7.0	0.4	0.9	0.6	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=15.6

.0332E+00 146.0 .0317E+00 148.0 .0255E+00 150.0 .0283E+00 154.0	1.0224E+00	8.7559E-01 1.0780E+00	
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ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=15.8

D CROS	LE H-PLANE		-	+00 1.1823E+00	-01 1.2080E+00	-01 1.2312E+00	-01 1.2482E+00	+00 1.2615E+00	.00 1.2906E+00	.00 1.3594E+00	-01 1.4604E+00	-01 1.5373E+00	-01 1.5382E+00	1.5068E+00	+00 1.5916E+00	1.8925E+00	-01 2.2718E+00	-02 2.4046E+00	.00 2.1712E+00	-00 2.0314E+00	.00 2.7819E+00		+00 6.2277E+00	-01 5.8643E+00	-00 3.7806E+00	-01 5.1053E+00	.01 1.9432E+01	.01 5.5645E+01	-02 1.1423E+02	.02 1.8262E+02	.02 2.3841E+02		
NORMAL 12	E-PLANE		1.5141E+00	1.2391E+00	6.4605E-01	3.4629E-01	7.22NPE-01	1.4681E+00	1.81835+00	1.33365+00	4.61685-0	1.3786E-01	8.51325-01	2.0143E+00	2.4674E+00	1.6779E+00	4.0777E-01	7.5985E-02	1.37H9E+00	3.5405E+00	4.9333E+00	4.4806E+00	2.5327E+00	9.82138-01	3.0667E+00	1.3398E+0	3.7353E+01	7.8526E+01	1.3464E+02	1.948BE+02	2.4204E+02	2.5997E+02	
	ANGLE	1 1 1 1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE		1.0117E+00	1.0074E+00	1.0036E+00	1.0039E+00	1.0091€+00	1.0162E+00	1.0205E+00	1.0191E+00	1.0138E+00	1.0100E+00	1.0125E+03	1.0213E+00	1.0309E+00	1.0346E+00	1.0307E+00	1.0248E+00	1.0251E+00	1.0351E+00	1.0495E+00	1.0587E+00	1.0581E+00	1.0529E+00	1.0538E+00	1.0665E+00	1.0859E+00	1.1014E+00	1.1072E+00	1.1084E+00	1.1151E+00	1.1320E+00	
NURMAL I ZED	E-PLANE	1 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	9.4067E-01	9.0026E-01	9.2950E-01	1.0142E+00	1.0942E+00	1,1038E+00	1,0249E+00	9,1051E-01	8.5170E-01	9.06286-01	1,0421E+00	1,1501E+00	1.1290E+00	9.7906E-01	8.1946E-01	7.9711E-01	9.5206E-01	1,1606E+00	1.2276E+00	1.0658E+00	8.0137E-01	6.8305E-01	8.5084E-01	1.1740E+00	1.3409E+00	1,1539E+00	7.5669E-01	5.3875E-01	7.5936E-01	1.246BE+00	
	ANGLE	1 1 1	62.0	64.0	0.99	68.0	70.0	72.0	74.0	16.0	78.0	0.08	82.0	84.0	96.0	88.0	0.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION	H-PLANE	111111111	1.0452E+00	1.0441E+00	1.0406E+00	1.0350E+00	1.0274E+00	1.0184E+00	1.0090E+00	1.0005E+00	9.9436E-01	9.9154E-01	9.9240E-01	9.9626E-01	1.0015E+00	1.0062E+00	1.0035E+00	1.0078E+00	1.0045E+00	1.0005E+00	9.97776-01	9.9780E-01	1.0000E+00	1.0047E+00	1.0079E+00	1.0082E+00	1.0057E+00	1.0019E+00	9.9950E-01	1.0005E+00	1.0048E+00	1.0100E+00	1.0129F+00
۵	E-PLANE		1.0452E+00	1.04126+00	1.02976+00	1.01216+00	9.91126-01	9.70596-01	9.55656-01	9.51666-01	9.62125-01	9.85138-01	1.01716+00	1.04386+00	1.0551E+00	1.04476+00	1.01526+00	9.7870E-01	9.51796-01	9.48316-01	9.71496-01	1.01076+00	1.0449E+00	1.0537E+00	1.02916+00	9.8295E-01	9.4288E-01	9.36416-01	9.7257E-01	1.0323E+00	1.07716+00	1.0730E+00	1.0160F+00
	ANGLE		0.0	5.0	0.4	0.9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

CROSS SECTION		1.1507E+00	1.1768E+00	1.2042E+00	1.230BE+00	1.2513E+00	1.2640E+00	1.2845E+00	1.3424E+00	1.4436E+00	1.5384E+00	1.5588E+00	1.5198E+00	1.5650E+00	1.8339E+00	2.2387E+00	2.4451E+00	2.2469E+00	2.0273E+00	2.6348E+00	4.4129E+00	6.2387E+00	6.1251E+00	3.9830E+00	4.7456E+00	1.8368E+01	5.4579E+01	1.1455E+02	1.8551E+02	2.4383E+02	2.6647E+02	
NORMALIZED C		1.4762E+00	1.4059E+00	8.51476-01	3.7052E-01	5.2619E-01	1.2472E+00	1.8076E+00	1.55416+00	6.82G3E-01	1.1781E-01	5.957.46-01	1.7803E+00	2.4969E+00	1.9415E+00	6.3110E-01	1.8655E-02	1.0719E+00	3.2493E+00	4.9124E+00	4.7440E+00	2.8719E+00	1.0768E+00	2.6429E+00	1.2388E+01	3.60845+01	7.7824E+01	1.3560E+02	1.9827E+02	2.4764E+02	2.66475+02	
7 CAA		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CROSS SECTION		1.0134E+00	1.0115E+00	1.007cE+00	1.0037E+00	1.0051E+00	1.0111E+00	1.0182E+00	1.0213E+00	1.0185E+00	1.0130E+00	1.0108£+00	1.0159E+00	1.0250E+00	1.0343E+00	1.0350E+00	1.0294E+00	1.0253E+00	1.0300E+00	1.0433E+00	1.0566E+00	1.0614E+00	1.0576E+00	1.0545E+00	1.0618E+00	1.0795E+00	1.0982E+00	1.1086E+00	1.1114E+00	1.1156E+00	1.1287E+00	
NORMALIZED C		1.0038E+00	9.2732E-01	8.9536E-01	9.3903E-01	1.0350E+00	1.1065E:00	1.0951E+00	9.9635E-01	8,8338E-01	8.5311E-01	9.4383E-01	1.0901E+00	1,1649E+00	1.0880E+00	9.0922E-01	7.8402E-01	8.4016E-01	1,0477E+00	1.221BE+00	1.1818E+00	9.3592E-01	7.0472E-01	7.2845E-01	1.0185E+00	1.3068E+00	1.2849E+00	9.2979E-01	5.7649E-01	6.1118E-01	1.0540E+00	
a rewa	1000	62.0	64.0	0.99	68.0	10.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION	TIPLAME	9.75308-01	9.77216-01	9.8250E-01	9.89316-01	9,97435-01	1.003: E+00	1.005E+00	1.0055E+00	1.003ºE+00	1.0001E+C0	9.9704E-01	9.9612E-01	9.9778E-C1	1.0013E+G0	1,00%1E+00	1.007.1E+00	1.00/1E+00	1.00.:3E+00	1,00055+00	9.9767E-01	9.9753E-01	1.0003E+00	1.00.16E+00	1.0081E+00	1.0057E+00	1.0063E+00	1.0025E+00	1.0002E+00	1.0013E+00	1.0056E+00	1.0109E+00
NORMALIZED CI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9.75395-01	9.80365-01	9.93586-01	1.00361+90	1.0215E - 00	1.02374.00	1.0115E+00	9.9770 - 91	9.81505-01	9.74655-01	9.82068-01	1.00186.00	1.02495+00	1.0396L-00	1.0362E+00	1.01355.00	9.80146-01	9.526BE-01	9.47136-01	9.69833-01	1.0116E + 00	1.0502E+00	1.0621E+00	1.0371E+00	9.8714E-01	9.42565-01	9.3402E-01	9.7137E-01	1.0332E+00	1.0770E+00	1.06742+00
L C	ANGLE	0	0	0.4	9	၁. စ	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	45.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=16.2

ANG! E	NORMAL 1 ZED E-PLANE	ZED CROSS SECTION NE H-PLANE	ANGLE	NURMALIZED C E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMAL I ZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
	94205-01	34205-01	62.0	1 06276+00	1 01165+00	122	1 36286+00	1 14605+00
0.	9.43115-01	9.3722E-01	64.0	9.9199E-01	1.0136E+00	124.0	1.5089E+00	1.1710E+00
0.7	4.1	9.45BOE-01	0.99	9.1622E-01	1.01116+00	126.0	1.0718E+00	1.1992E+00
9.9	1.00085+00	9.5861E-01	0.89	8.9656E-01	1.0065E+00	128.0	4.7275E-01	1.2287E+00
9.0	1.0334E+00	9.7359E-01	70.0	9.5704E-01	1.0040E+00	130.0	3.8885E-01	1.2536E+00
0.01	1.0552E+00	9.8830E-01	72.0	1.0577E+00	1.0067E+00	132.0	1.0053E+00	1.2679E+00
12.0		1.0004E+00	74.0	1.1177E+00	1.0137E+00	134.0	1.7207E+00	1.2819E+00
14.0	1.0433E+00	1.0081E+00	76.0	1.0788E+00	1.0203E+00	136.0	1.7293E+00	1.3275E+00
16.0	1.01448+00	1.0109E+00	78.0	9.6137E-01	1.0218E+00	138.0	9.3213E-01	1.4241E+00
18.0		1.0092E+00	80.0	8.59366-01	1.0176E+00	140.0	1.7129E-01	1.5335E+00
20.0	9.5200E-01	1.004BE+00	82.0	8.6741E-01	1.0125E+00	142.0	3.8070E-01	1.5768E+00
22.0	9.59516-01	1.0000E+00	84.0	9.92895-01	1.0127E+00	144.0	1.5150E+00	1.5388E+00
24.0	9.76445-01	9.9692E-01	96.0	1,1339E+00	1.0204E+00	146.0	2.46085+00	1.5479E+00
26.0	1.0C48E+00	9.9666E-01	88.0	1.1574E+00	1.0309E+00	148.0	2.17.11E+00	1.7770E+00
28.0	1.0304E+00	9.99075-01	0.06	1,0231E+00	1.0367E+00	150.0	8.857 pt -01	2.1946E+00
30.0	1.0395E+00	1.0027E+00	92.0	8.3826E-01	1.0344E+00	152.0	1.9202E-02	2.4731E+00
32.0		1.0057E+00	94.0	7.77325-01	1.0283E+00	154.0	7.93396-01	2.3256E+00
34.0	9.9491E-01	1.0054E+00	0.96	9.17986-01	1.0277E+00	156.0	2.9358E+00	2.0428E+00
36.0	9.6427E-01	1,0045E+00	98.0	1,1457E+00	1.0371E+00	158.0	4.8342E+00	2.5028E+00
38.0	9.5297E-01	1.00135+00	100.0	1.2384E+00	1.0519E+00	160.0	4.9764E+00	4.2237E+00
40.0		9.98555-01	102.0	1.0791E+00	1.0620E+00	162.0	3.2199E+00	6.2199E+00
42.0		9.9825E-01	104.0	7.9629E-01	1.0621E+00	164.0	1.2156E+00	6.3727E+00
44.0	•	1.000°E+00	106.0	6.700BE-01	1.0575E+00	166.0	2.2740E+00	4.2143E+00
46.0	1.0624E+00	1.0051E+00	108.0	8.5724E-01	1.0594E+00	168.0	1.1410E+01	4.4367£+00
48.0	•	1.0036E+00	110.0	1.2009E+00	1.0733E+00	170.0	3.4796E+01	1.7324E+01
50.0	9.8250E-01	1.0092E+00	112.0	1.348E+00	1.0931E+00	172.0	7.7054E+01	5.3470E+01
52.0	9.35835-01	1.0066E+00	114.0	1,1086E+00	1.1081E+00	174.0	1.3649E+02	1.1479E+02
54.0	9.28708-01	1.0027E+00	116.0	6.8821E-01	1.1139E+00	176.0	2.0163E+02	1.8836E+02
26.0	9.70656-01	-	118.0	5.3047E-01	1.1172E+00	178.0	2.5328E+02	2.4931E+02
58.0		1.00188+03	120.0	8.5271E-01	1.1269E+00	180.0	2.7304E+02	2.7304E+02
60.09	1.0792E+00	1,0066E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=16.4

ANGLE	NORMALIZED (ZED CROSS SECTION VE H-PLANE	ANGLE	NORMALIZED C E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
0.0	9.60476-01	9.60475-01	62.0	1.0855E+00	1.0077E+00	122.0	1.1927E+00	1.1424E+00
0	9.6417E-01	9.6152E-01	64.0	1.0582E+00	1.0126E+00	124.0	1.53.12E+00	1.1656E+00
4	9 75225-01	9.64745-01	0.99	9.7848E-01	1.0139E+00	126.0	1.27 GE+00	1.1935E+00
9	9.9286E-01	9.70175-01	68.0	9.0565E-01	1.0107E+00	128.0	6.3832E-01	1.2249E+00
0		9.7764E-01	70.0	9.0229E-01	1.0062E+00	130.0	3.24 GE-01	1.2544E+00
10.0		9.8653E-01	72.0	9.8054E-01	1.0048E+00	132.0	7.6818E-01	1.2724E+00
12.0		9.9569E-01	74.0	1.0826E+00	1.0090E+00	134.0	1.56 E + 00	1.2826E+00
0.4		1.0076E+00	76.0	1.1203E+00	1.0166E+00	136.0	1.83.11 . + 00	1.3158E+00
16.0		1.00ABE+00	78.0	1.0498E+00	1.0222E+00	138.0	1.1849E+00	1.4035E+00
18.0		1.0105E+00	80.0	9.1982E-01	1.0218E+00	140.0	2.92H1E-01	1.5229E+00
20.0		1,00':7E+00	82.0	8.4235E-01	1.0165E+00	142.0	2.19:2E-01	1.5907E+00
22.0		1,00.145+00	84.0	8.9709E-01	1.0127E+00	144.0	1.23J9E+00	1.5617E+00
24.0	9.5262E-01	9.9954E-01	86.0	1.0493E+00	1.0158E+00	146.0	2.3610E+00	1.540BE+00
26.0		9.96146-01	98.0	1,1639E+00	1.0256E+00	148.0	2.3614E+00	1.7243E+00
28.0		9.95556-01	90.06	1.1214E+00	1.0353E+00	150.0	1.1604E+00	2.1416E+00
30.0		9.97REE-01	92.0	9.4051E-01	1.0378E+00	152.0	7.630PE-02	2.4875E+00
32.0		1.C019E+00	94.0	7.8300E-01	1.0330E+00	154.0	5.5012E-01	2.4040E+00
34.0		1,0056E+00	0.96	8.1236E-01	1.0284E+00	156.0	2.6071E+00	2.0765E+00
36.0		1.0070E+00	98.0	1.0242E+00	1.0324E+00	158.0	4.7146E+00	2.3884E+00
38.0		1,0057E+00	100.0	1.2221E+00	1.0458E+00	160.0	5.17326+00	4.0272E+00
40.0		1,0025E+00	102.0	1.1929E+00	1.0597E+00	162.0	3.5712E+00	6.1720E+00
42.0	9.63736-01	9.9954E-01	104.0	9.3338E-01	1.0650E+00	164.0	1.3958E+00	6.6038E+00
44.0		9.98365-01	106.0	6.8913E-01	1.0616E+00	166.0	1.9600E+00	4.4710E+00
46.0		1,0012E+C0	108.0	7.2836E-01	1.0596E+00	168.0	1.0454E+01	4.1786E+00
48.0		1.0053E+00	110.0	1.0488E+00	1.0684E+00	170.0	3.3490E+01	1.6302E+01
20.0		1.0036E+00	112.0	1.3343E+00	1.0871€+00	172.0	7.6216E+01	5.2322E+01
52.0		1.0091E+00	114.0	1.2580E+00	1.1055E+00	174.0	1.37306+02	1.1497E+02
54.0		1.0053E+00	116.0	8.5179E-01	1.1 546+00	176.0	2.0497E+02	1.9117E+02
56.0		1.0024E+00	118.0	5.3018E-01	1.1194E+00	178.0	2.589BE+02	2.5482E+02
58.0	9.7724E-01	1.0005E+00	120.0	6.7650E-01	1.1266E+00	180.0	2.7970E+02	2.7970E+02
0.09	1.0468E+00	1.0025E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=16.6

IOSS SECTION H-PLANE		1.1403E+00	1.1610E+00	1.1877E+00	1.2198E+00	1.2533E+00	1.2766E+00	1.2861E+00	1.3080F +00	1.3832E+00	1.5071€+00	1.5993E+00	1.5868E+00	1.5432E+00	1.6780E+00	2.0817E+00	2.4876E+00	2.4791E+00	2.1264E+00	2.2932E+00	3.82705+00	6.0958E+00	6.8154E+00	4.7494E+00	3.97135+00	1.5306E+01	5.1136E+01	1.1507E+02	1.9396E+02	2.6039E+02	2.8645E+02	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1	9.927AE-01	1.4790E+00	1.430TE+00	8.443E-01	3.39595-01	5.6026E-01	1.36145+00	1.8643E+00	1.430PE+00	4.7186E-01	1.2170E-01	9.53135-01	2.2078E+00	2.5033E+00	1.44 05+00	1.86768-01	3.49125-01	2.2707E+00	4.5598E+00	5.33146+00	3.9207E+00	1.6136E+00	1.700EE+00	9.553BE+00	3.2170E+01	7.5314E+01	1.3804E+02	2.0828E+02	2.6472E+02	2.8645E+02	
ANGLE	1 1 1 1 1	122.0	124.0	125.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
IOSS SECTION H-PLANE	111111111	1.0037E+00	1.0092E+00	1.0138E+00	1.0141E+00	1.0103E+00	1.0060E+00	1.0061E+00	1.C117E+00	1.0195E+00	1.0235E+00	1.0210E+00	1.0155E+00	1.0138E+00	1.0201E+00	1.0311E+00	1.0385E+00	1.0375E+00	1.0316E+00	1.0304E+00	1.0398£+00	1.0550E+00	1.0655E+00	1.0658E+00	1.0620E+00	1.0656E+00	1.0812E+00	1.1012E+00	1.1153E+00	1.1215E+00	1.1274E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.0594E+00	1.0892E+00	1.0471E+00	9.5870E-01	8.9363E-01	9,1172E-01	1.00755+00	1,1037E+00	1.1107E+00	1.0084E+00	8.7801E-01	8.4070E-01	9.4553E-01	1.1078E+00	1,1715E+00	1.0563E+00	8.5434E-01	7.6332E-01	8.94835-01	1.1396E+00	1.2479E+00	1.0799E+00	7.7912E-01	6.6092E-01	8.8470E-01	1,2456£+00	1.3487E+00	1.0352E+00	6.0830E-01	5.5341E-01	
ANGLE	1 1 1 1	62.0	64.0	0.99	68.0	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION H-PLANE		1.0259E+00	1.0239E+C0	1.0183E+00	1.0108E+00	1.0034E+00	9.9800E-01	9.9574E-01	9.9670E-01	9.9985E-01	1.0035E+00	1.0059E+00	1.0060E+00	1.0037E+00	1.0002E+00	9.9737E-01	9.9655E-01	9.9859E-01	1.0023E+00	1.0059E+00	1.0075E+00	1.0062E+00	1.0029E+00	9.9970E-01	9.9883E-01	1.0011E+00	1.0053E+00	1.0086E+00	1.0090E+00	1.0062E+00	1.0024E+00	1.0010E+00
MORWALIZED C E-PLANE		1.0259E+00	1.0205E+00	1.00682+00	9.91465-01	9.81935-01	9.8277E-01	9.9368E-01	1.0095€+00	1.0221E+00	1.0242E+00	1.012BE+00	9.91845-01	9.71685-01	9.6424E-01	9.76406-01	1.0047E+90	1.0355E+00	1.0508E+00	1.0394E+00	1.0044E+00	9.6408E-01	9.4290£-01	9.5623E-01	9.98668-01	1.0441E+00	1.0606E+00	1.0328E+00	9.7611E-01	9.3033E-01	9.32916-01	9.885cE-01
ANGLE	}	0.0	0	0.4	9 .0	9.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	26.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

SPHERE	
CONDUCTING	
F POM	
SCATTERING	
BISTATIC	

	NORMALIZED	NORMALIZED CROSS SECTION		NORMALIZED	NORMALIZED CROSS SECTION		NORMAL 1 ZED	HORMALIZED CROSS SECTION
ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
-		****	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-		
0.0	1.0657E+00	1,0657E+00	62.0	9.9925E-01	1.0017E+00	122.0	7.9397E-01	1.1394E+00
0.0	1.0561E+00	1.0624E+00	64.0	1.0692E+00	1.0051E+00	124.0	1.3523E+00	1.1575E+00
4	1,0306E+00	1.0533E+00	66.0	1.0864E+00	1.0109£+00	126.0	1.5360E+00	1.1822E+00
0.9	9.97396-01	1.0400E+00	68.0	1,0280E+00	1.0148E+00	128.0	1.0657E+00	1.2138E+00
0.8	9.67158-01	1.0249E+00	70.0	9.34425-01	1.0140E+00	130.0	4.3026E-01	1.2503E+00
10.0	9.4949E-01	1.0107E+00	72.0	8.8440E-01	1.0095€+00	132.0	4.0385E-01	1.2796E+00
12.0	9.4997E-01	9.9975E-01	74.0	9.2906E-01	1.0060E+00	134.0	1.1253E+00	1.2913E+00
14.0	9.6814E-01	9.93516-01	0.92	1.0395E+00	1.0078E+00	136.0	1.8227E+00	1.3042E+00
16.0	9.9709E-01	9.92265-01	78.0	1.1201E+00	1.0148E+00	138.0	1.6394E+00	1.3647E+00
18.0	1.0252E+00	9.9498E-01	80.0	1.0887E+00	1.0221E+00	140.0	6.9409E-01	1.4873E+00
20.0	1.0404E+00	9.9967E-01	82.0	9.5930E-01	1.0240E+00	142.0	9.26145-02	1.6015E+00
22.0	1.0358E+00	1.0040E+00	84.0	8.4525E-01	1.0198E+00	144.0	6.90055-01	1.6117E+00
24.0	1.0136E+00	1.0061E+00	86.0	8.6242E-01	1.0149E+00	146.0	1.99516+00	1.5543€+00
26.0	9.85386-01	1.0054E+00	88.0	1.0116E+00	1.0163E+00	148.0	2.5848E+00	1.6398E+00
28.0	9.66735-01	1.0026E+00	90.0	1,1576E+00	1.0255E+00	150.0	1.72175+00	2.0176E+00
30.0	9.6891E-01	9.9948E-01	92.0	1.1467E+00	1.0363E+00	152.0	3.4561E-01	2.4735E+00
32.0	9.9184E-01	9.9794E-01	94.0	9.6663E-01	1.0403E+00	154.0	1.9450E-01	2.5479E+00
34.0	1.0228E+00	9.9895E-01	93.0	7.8413E-01	1.0361E+00	156.0	1.9347E+00	2.1902E+00
36.0	1.0423E+00	1.0020E+00	98.0	7.9530E-01	1.0314E+00	158.0	4.35185+00	2.2187E+00
36.0	1.03595+00	1.0054E+00	100.0	1.0153E+00	1.0354E+00	160.0	5.440CE+00	3.6265E+00
40.0	1.0038E+00	1.0070E+00	102.0	1.2301E+00	1.0492E+00	162.0	4.2637E+00	5.9927E+00
42.0	9.6400E-01	1.0059E+00	104.0	1.1973E+00	1.0635E+00	164.0	1.8653E+00	7.0046E+00
44.0	9.4267E-01	1.0027E+00	106.0	9.15786-01	1.0687E+00	166.0	1.4956E+00	5.0457E+00
46.0	9.5746E-01	9.9962E-01	108.0	6.6854E-01	1.0657E+00	168.0	8.6834E+00	3.8141E+00
48.0	1.0030E+00	9.9891E-01	110.0	7.4445E-01	1.0652E+00	170.0	3.0842E+01	1.433BE+01
50.0	1.05085+00	1.0014E+00	112.0	1.1024E+00	1.0762E+00	172.0	7.4350E+01	4.9915E+01
52.0	1.0658E+00	1.0058E+00	114.0	1.3635E+00	1.0959E+00	174.0	1.38716+02	1.1509E+02
54.0	1.0329E+00	1.0091E+00	116.0	1.2034E+00	1.1135E+00	176.0	2.1157E+02	1.9670E+02
56.0	9.71485-01	1.0093E+00	118.0	7.4902E-01	1.1230E+00	178.0	2.7051E+02	2.6598E+02
58.0	9.26515-01	1.0062E+00	120.0	5.0221E-01	1.1289E+00	180.0	2.9327E+02	2.9327E+02
90.0	9.3618E-01	1.0025E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=17.0

ISS SECTION	TIPLANE	1.1395E+00	1.1551E+00	1.1773E+00	1.2074E+00	1.2454E+00	1.2807E+00	1.2973E+00	1.3042E+00	1.3491E+00	1.4649E+00	1.5971E+00	1.6344E+00	1.5728E+00	1.6110E+00	1.9517E+00	2.4455E+00	2.6078E+00	2.2653E+00	2.1656E+00	3.4294E+00	5.8644E+00	7.1690E+00	5.3561E+00	3.70638+00	1.3402E+01	4.8660E+01	1.1504E+02	1.9940E+02	2.7162E+02	3.0017E+02	
NORMALIZED CROSS SECTION		6.2705E-01	1.1737E+00	1.55GE+00	1.2729E+00	5.8448E-01	3.1400E-01	8.8219E-01	1.7087E+00	1.7951E+00	9.4232E-01	1.3312E-01	4.5925E-01	1.740AE+00	2.6059E+00	1.98:19E+00	5.4626E-01	9.0225E-02	1.6075E+00	4.1125E+00	5.5243E+00	4.5949E+00	2.14/jeE+00	1.3445E+00	7.8562E+00	2.9510E+01	7.3329E+01	1.3930E+02	2.1482E+02	2.7633E+02	3.0017E+02	
	ANGLE	122.0	124.0	125.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	HIPLANE	1.0025E+00	1.0024E+00	1.0067E+00	1.0124E+00	1.0154E+00	1.0133E+00	1.0086E+00	1.0064E+00	1.0103E+00	1.0183E+00	1.0243E+00	1.0238E+00	1.0184E+00	1.0154E+00	1.0206E+00	1.0318E+00	1.0404E+00	1.0404E+00	1.0347E+00	1.0337E+00	1.0435E+00	1.0592E+00	1.0695E+00	1.0696E+00	1.0669E+00	1.0729E+00	1.0903E+00	1.1102E+00	1.1233E+00	1.1305E+00	
NORMALIZED CROSS SECTION	E-PLANE	9.3967E-01	1.0116E+00	1.0785E+00	1.0797E+00	1.0046E+00	9.1137E-01	8.8435E-01	9.5835E-01	1,07595+00	1.1277E+00	1.0522E+00	9.0686E-01	8.2990E-01	9.1034E-01	1.0855E+00	1.1815E+00	1.0820E+00	8.6580E-01	7.5337E-01	8.8442E-01	1.1454E+00	1,2559E+00	1.0643E+00	7.4739E-01	6.5811E-01	9.3540E-01	1.3009E+00	1.3252E+00	9.2645E-01	5.2996E-01	
	ANGLE	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
O CROSS SECTION	H-PLANE	1 0422F +00	1.0409E+00	1.03:9E+00	1.030GE+00	1.0223E+00	1.0131E+00	1.0042E+00	9.9712E-01	9.9307E-01	9.9271E-01	9.9501E-01	1.0003E+00	1.0048E+00	1.0072E+00	1.00-36E+00	1.0037E+00	1.000CE+00	9.9704E-01	9.98325-01	1.0012E+00	1.0047E+00	1.0067E+00	1.0059E+00	1.0029E+00	1.00002+00	9.9951E-01	1.0022E+00	1.0067E+00	1.0098E+00	1.0094E+00	1.0060E+00
NORMALIZED C	E-PLA''E	1 04225+00	1.0377E+00	1.0249£+00			5 6668E-01		9.6045E-01	9.78505-01	1.00625.00	1.03325+00	1.0474F+00	1,04095+00	1.0153E+00	9.82015-01		9.56655-01	9.8028E-01	1.0162E+00	1.04276+09	1.0415E+00	1.0109E+00	9.63375-01			1.0079E+00	1.0552E+00	1.0656E+00	1.0255E+00	9.60058-01	9.1913E-01
,	ANG! E		0.0	4	0.9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=17.2

OSS SECTION	H-PLANE	1.1402E+00	1.1537E+00	1.1735E+00	1.2011E+00	1.2391E+00	1.2797£+00	1.3030E+00	1.3076E+00	1.3373E+00	1.4412E+00	1.5862E+00	1.6533E+00	1.5969E+00	1.5925E+00	1.8868E+00	2.4049E+00	2.656E+00	2.3487E+00	2.1342E+00	3.2389E+00	5.7133E+00	7.3066E+00	5.676BE+00	3.6468E+00	1.2500€+01	4.7377E+01	1.14925+02	2.020SE+02	2.7729E+02	3.07156+02	
NORMALIZED CROSS SECTION	E-PLANE	 5.1752E-01	9.70496-01	1.5001E+00	1.4411E+00	7.84845-01	2.9962E-01	6.5620E-01	1.5356E+00	1.8888E+00	1.1976E+00	2.3934E-01	2.7426E-01	1.4801E+00	2.5660E+00	2.2217E+00	7.80GOE-01	3.835EE-02	1.2968£+00	3.8425E+00	5.5560E+00	4.9005E+00	2.4534E+00	1.2466E+00	7.0742E+00	2.8177E+01	7.2249E+01	1.39816+02	2.1804E+02	2.8220E+02	3.0715E+02	
	ANGLE	 122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
UDRMALIZED CROSS SECTION	H-PLANE	 1.0054E+00	1.0024E+00	1.0033E+00	1.0084E+00	1.0140E+00	1.0158E+00	1.0125E+00	1.0080E+00	1.0076E+00	1.0136E+00	1.0218E+00	1.0258E+00	1.0227E+00	1.0174E+00	1.0176E+00	1.0264E+00	1.0378E+00	1.0428E+00	1.0391E+00	1.0346E+00	1.0392E+00	1.0536E+00	1.0679E+00	1.0726E+00	1.0699E+00	1.0717E+00	1.0852E+00	1.1056E+00	1.1221E+00	1.1317E+00	
NORMALIZED C	E-PLANE	 9.1460E-01	9.4953E-01	1.0301E+00	1.0894E+00	1.0695E+00	9.7814E-01	8.9233E-01	8.9605E-01	9.9798E-01	1.1095E+00	1.1180E+00	9.9903E-01	8.5778E-01	8.3974E-01	9.8112E-01	1.1501E+00	1,1632E+00	9.8152E-01	7.7985E-01	7.8404E-01	1.0184E+00	1.2422E+00	1.1884E+00	8.7799E-01	6.4392E-01	7.8046E-01	1.1754E+00	1.37956+00	1.1091E+00	6.30916-01	
	ANGLE	 62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION	H-PLANE	9.8051E-01	9.8241E-01	9.8729E-01	9.9383E-01	1.0002E+00	1.0045E+00	1.0059E+00	1.0044E+00	1.0012E+00	9.9811E-01	9.9666E-01	9.9765E-01	1.0006E+00	1.0041E+00	1.0062E+00	1.0058E+00	1.0032E+00	9.9982E-01	9.9768E-01	9.98185-01	1.0012E+00	1.0049E+00	1.0071E+00	1.0063E+00	1.0033E+00	1.0004E+00	1.0001E+00	1.0030E+00	1.0074E+00	1.0102E+00	1.0092E+00
NORMALIZED CROSS SECTION	E-PLANE	 9.8c61E-01	9.85336-01	9.9733E-01	1.0109E+00	1.0190E+00	1.0170E+00	1.00525+00	9.8966E-01	9.7946E-01	9.81635-01	9.96765-01	1.0177E+00	1.0327E+00	1.0314E+00	1.0116E+00	9.8180E-01	9.5838E-01	9.5686E-01	9.8150E-01	1.0201E+00	1.0493E+00	1.0482E+60	1.0146E+00	9.6896E-01	9.43535-01	9.5957E-01	1.0050E+00	1.0560E+00	1.0613E+00	1.0144E+00	9.4724E-01
	ANGLE	 0.0	5.0	0.4	6.0	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=17.4

NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.1412E+00	1.15338+00	1.170BE+00	1.1954E+00	1.2319E+00	1.2763E+00	1.3076E+00	1.3136E+00	1.3300E+00	1.4181E+00	1.5695E+00	1.6667E+00	1.6249E+00	1.5846E+00	1.8254E+00	2.3531E+00	2.6926E+00	2.4375E+00	2.1244E+00	3.0585E+00	5.5419E+00	7.4161E+00	6.0041E+00	3.6345E+00	1.1635E+01	4.6070E+01	1.1473E+02	2.0467E+02	2.8300£+02	3.14216+02	
NORMALIZED (E-PLANE		4.8126E-01	7.7225E-01	1.3746E+00	1.5495E+00	1.0056E+00	3.6081E-01	4.6901E-01	1.3195E+00	1.9121E+00	1.4402E+00	4.0283E-01	1.4514E-01	1.2002E+00	2.4670E+00	2.4218E+00	1.03946+00	3.9306E-02	1.0092E+00	3.5470E+00	5.5431E+00	5.2027E+00	2.7815E+00	1.2003E+00	6.3387E+00	2.6846E+01	7.1112E+01	1.4024E+02	2.2122E+02	2.8812E+02	3.1421E+02	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.0088E+00	1.0049E+00	1.0025E+00	1.0048E+00	1.0106E+00	1.0156E+00	1.0158E+00	1.0115E+00	1.0079E+00	1.0099E+00	1.0175E+00	1.02506+00	1.0262F+00	1.02125+00	1.01746+00	1.0218E+00	1.0331E+00	1.0426E+00	1.0431E+00	1.0377E+00	1.0372E+00	1.0479E+00	1.0640E+00	1.0737E+00	1.0734E+00	1.0723E+00	1.0814E+00	1.1004E+00	1.1196E+00	1.1321E+00	
NORMALIZED (E-PLANE		9.3687E-01	9.1587E-01	9.6687E-01	1.0526E+00	1.0967E+00	1.050BE+00	9.46545-01	8.7853F-01	9.1971E-01	1.0427E+00	1.1307F+00	1 08495+00	9 3388F-01	8.2455F-01	8 R174F-01	1.0651E+00	1.1857E+00	1.09555+00	8 6591E-01	7.4227E-01	8.8474E-01	1.1620E+00	1,2591E+00	1.0294E+00	7.0387E-01	6.7002E-01	1.0133E+00	1.3575E+00	1.2650E+00	7.8707E-01	
ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.08	82.0	84.0	96.0	88.0	0.09	92.0	0.46	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION H-PLANE	111111111	9.4189E-01	9.4499E-01	9.5370F-01	9 6641F=01	9 80725-01	0.0305F-01	00198000	0010000	1 0089E+00	1 00525400	0043000	0.0175	0.00000	0-20506-0	10-11-00B-1	00+30700	004375400	001378700	1.0001E+00	0.000000	9.3044E 01	1.0018E+00	1 0054F+00	1 00745+00	1 00656+00	1 00336400	1 0004E+00	1.00045+00	1 00375+00	1.00816+00	1.0104E+00
NORMALIZED C E-PLANE		9.4189E-01	9.509AF-01	9 7546F-01	00355400	1 03636+00	00.100.00	00735.00	004735400	0.0438E+00	9.30435	9,727.00	9.03/00.0	0 10000	00.00000	00130100	00306400	0.02015-01	0.53915.0	9.0/025-01	9.61965-01	10-37050	1.04076+00	1 04525+00	0000000	0.5000000000000000000000000000000000000	9.0184C-01	50.000	101325+00	1 06025+00	00440040	1.0042E+00
ANGLE		0.0	0	4	i	9 0		2 .	2.5	9 0		9.0	9 6	27.7		9.0	20.00	2 6	9 6		2.00	9 6	9 9			9 9			. 4	9	9 0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

NORMALIZED C E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED C E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED (NORMALIZED CROSS SECTION E-PLANE H-PLANE
					1		
9.6253E-01	9.6258E-01	62.0	9.9159E-01	1.0107E+00	122.0	5.2212E-01	1.1420E+00
-	9.6384E-01	64.0	9.2613E-01	1.0084E+00	124.0	6.0715E-01	1.1536E+00
9.7929E-01	9.6762E-01	0.99	9.20556-01	1.0045E+00	126.0	1.1979E+00	1.1693E+00
9.9825E-01	9.7379E-01	68.0	9.8803E-01	1.0032E+00	128.0	1.5850E+00	1.1909E+00
8	9.8191E-01	70.0	1.0731E+00	1.0067E+00	130.0	1.2209E+00	1.2245E+00
00	9.9098E-01	72.0	1.0941E+00	1.0129E+00	132.0	4.89-10E-01	1.270BE+00
1.0442E+00	9.9954E-01	74.0	1,0203E+00	1.0169E+00	134.0	3.3802E-01	1.3102E+00
.0363E+00	1.0060E+00	76.0	9.1213E-01	1.0153E+00	136.0	1.07aEE+00	1.3211E+00
1.0149E+00	1,0091E+00	78.0	8.7493E-01	1.0105E+00	138.0	1.8635E+00	1.3272E+00
9.8716E-01	1.0085E+00	80.0	9.56785-01	1.0084E+00	140.0	1.6517E+00	1.3969£+00
9.6442E-01	1.0050E+00	82.0	1.0872E+00	1.0130E+00	142.0	6.1146E-01	1.5481E+00
-01	1.0005E+00	84.0	1.1322E+00	1.0217E+00	144.0	7.8521E-02	1.6737E+00
9.7125E-01	9.9695£-01	86.0	1.0293E+00	1.0272E+00	146.0	9.24586-01	1.6545E+09
8	9.9602E-01	88.0	8.6958E-01	1.0253E+00	148.0	2.31345+00	1.5870E+00
001	9.9793E-01	90.06	8.2253E-01	1.0198E+00	150.0	2.5770E+00	1.7698E+00
1.0441E+00	1.0015E+00	95.0	9.5703E-01	1.0193E+00	152.0	1.3127E+00	2.2922E+00
.0326E+00	1.0047E+00	94.0	1.144E+00	1.0278E+00	154.0	9.19506-02	2.7144E+00
.0013E+00	1.0059E+00	96.0	1.1735E+00	1.0397E+00	156.0	7.5132E-01	2.5285E+00
9.6919E-01	1.0043E+00	98.0	9.8526E-01	1.0452E+00	158.0	3.2314E+00	2.1354E+00
9.5799E-01	1.0014E+00	100.0	7.6981E-01	1.0418E+00	160.0	5.4860E+00	2.8908E+00
9.7707E-01	9.99135-01	102.0	7.8086E-01	1.0378E+00	162.0	5.4708E+00	5.3529E+00
00+	9.99316-01	104.0	1.0376E+00	1.0435E+00	164.0	3.1267E+00	7.4962E+00
1.04518+00	1.0020E+00	106.0	1.2602E+00	1.0588E+00	166.0	1.2040E+00	6.3341E+00
00+	1.0055E+00	108.0	1,1658E+00	1.0727E+00	168.0	5.6513E+00	3.6677E+00
00+	1.0074E+00	110.0	8.2298E-01	1.0765E+00	170.0	2.5519E+01	1.0809E+01
9.5682E-01	1.0052E+00	112.0	6.2600E-01	1.0746E+00	172.0	6.9921E+01	4.4740E+01
9.3663E-01	1.0029E+00	114.0	8.4702E-01	1.0792E+00	174.0	1.4059E+02	1.1446E+02
6473E-01	1.0003E+00	116.0	1.2646E+00	1.0955E+00	176.0	2.2438E+02	2.0725E+02
00+	1.0009E+00	118.0	1.3667E+00	1.1159E+00	178.0	2.94085+02	2.8875E+02
.0682E+00	1.0047E+00	120.0	9.7120E-01	1.1314E+00	180.0	3.2135E+02	3.2135E+02
Ş	1.0091E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=17.8

H-PLANE H-PLANE 1.0203E+00 00 1.0134E+00 01 1.0203E+00 01 1.0058E+00

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=18.0

NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.1419E+00	1.1546E+00	1.1689E+00	1.1857£+00	1.2113E+00	1.2552£+00	1.3077E+00	1.3361£+00	1.3340E+00	1.3653E+00	1.4966E+00	1.6662E+09	1.7102E+00	1.6190E+00	1.6835E+00	2.1520E+00	2.7131E+0	2.7049E+0	2.2146E+00	2.6038E+00	4.9339E+00	7.5647E+00	6.9872E+00	3.8628E+00	9.2829E+00	4.2022E+0	1.1371E+0	2.1224E+02	3.0034E+02	3.3587E+02	
NORMALIZED E-PLANE		7.92%7E-01	4.6010E-01	7.9215E-01	1.4334E+00	1.5387E+00	8.83:19E-01	2.85335-01	6.17116-01	1.5756E+00	1.9235E+00	1.1032E+00	1.4070E-01	4.4278E-01	1.8763E+00	2.730PE+00	1.862FE+00	3.40:12E-01	3.46305-01	2.56756+00	5.24 CE+00	5.9186E+00	3.8439E+00	1.3526E+00	4.4293E+00	2.29015+01	6.7394E+01	1.4107E+02	2.3057E+02	3.0611E+02	3.3587E+02	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION		1.0075E+00	1.01115+00	1.0105£+00	1.0070E+00	1.0040E+00	1.0056E+00	1.0115E+00	1.0170E+00	1.0173E+00	1.0128E+00	1.0096E+00	1.0130E+00	1.0217E+00	1.0285E+00	1.0275E+00	1.0221E+00	1.0213E+00	1.0300E+00	1.0423E+00	1.0479E+00	1.0443E+00	1.0412E+00	1.0488E+00	1.0650E+00	1.0779E+00	1.0806£+00	1.0801E+00	1.0884E+00	1.1069E+00	1.1268E+00	
NORMALIZED CROSS SECTION		1.0726E+00	1.0302E+00	9.5027E-01	9.0580E-01	9.4585E-01	1,0411E+00	1,1002E+00	1.0553E+00	9.3916E-01	8.6724E-01	9.2485E-01	1.0658E+00	1,1417E+00	1.0548E+00	8.8133E-01	8.1219E-01	9.4435E-01	1.1466E+00	1,1803E+00	9.76906-01	7,5348E-01	7.8801E-01	1.0737E+00	1,2781E+00	1,1206E+00	7.5128E-01	6.2608E-01	9.4876E-01	1.3521E+00	1.2998E+00	
A.G.:		62.0	64.0	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION		1.05795+30	1,05.165+00	1.045.4E+00	1.0323E+00	1.0181E+00	1.0058E+00	9.96?JE-01	9.93305-01	9.9424E-01	9.9804E-01	1.00.3E+00	1.0050E+00	1,00-13E+00	1.0020E+00	9.99748-01	9.9824E-01	9.9913E-01	1.0019E+00	1.03475+00	1.0057E+00	1.0042E+00	1.0012E+00	9.9901E-01	9.99475-01	1.0026E+00	1.0062E+00	1,0077E+00	1.0060E+00	1.0027E+00	1.0009E+00	1.0029F+00
NORMALIZED CI		1.05795+00	1.0482F+00	1.02295+00	9.91395-01	9.6522E-01	9.53895-01	9.61290-01	9.83375-01	1.01185+00	1.03180+00	1.03415.00	1.0177E+00	9.9213E-01	9.7294E-01	9.72655-01	9.92436-01	1.0200E+00	1.0360E+00	1.02715+00	3.95938-01	9.62700-01	9.52561-01	9.76536-01	1.0217E+00	1.0538E+00	1.0456E+00	9.98835-01	9.48905-01	9.39035-01	9.8283E-01	1 04665+00
ONA	1 2 1	0.0	0.0	0.4	0.9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	0.44	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

The second of th

KA=18.2

ANGLE	NORMALIZED C E-PLANE	RMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED C E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
1			1			1		1
0.0	1.0395E+00	1.0395E+00	62.0	1,0574E+00	1.0040E+00	122.0	9.790BE-01	1.1405E+00
5.0	1,0345[+00	1.0330E+00	64.0	1.0693E+00	1.0088E+00	124.0	4.9749E-01	1.1547E+00
4		1.0336E+00	0.99	1.0104E+00	1.0117E+00	126.0	6.1847E-01	1.1693E+00
0.9	1.00095+00	1.0255E+00	0.89	9.2989E-01	1.0102E+00	128.0	1.2679E+00	1.1849E+00
9.0	9.8028E-01	1.0179E+00	70.0	9.0703E-01	1.0061E+00	130.0	1.6059€+00	1.2064E+00
10.0	9.6493E-01	1.0088E+00	72.0	9.7377E-01	1.0043E+00	132.0	1.1056E+00	1.2464E+00
12.0	9.5083E-01	1,0007E+00	74.0	1.0721E+00	1.3077E+00	134.0	3.6672E-01	1.3024E+00
14.0	9.7139E-01	9.9517E-01	76.0	1.1006E+00	1.0143E+00	136.0	4.35566-01	1.3414E+00
16.0	9.94478-01	9.9323E-01	78.0	1.0176E+00	1.0184E+00	138.0	1.36'8E+00	1.3419E+00
18.0	1.0213E+00	9.9486E-01	80.0	8.9845E-01	1.0165£+00	140.0	1.96.195+00	1.3564E+00
20.0	1.03956+00	9.9837E-01	82.0	8.7135E-01	1.0117E+00	142.0	1.3524E+00	1.4697E+00
22.0	1.0390E+00	1.0032E+00	84.0	9.7985E-01	1.0108E+00	144.0	2.6370E-01	1.6519E+00
24.0	1.0186E+00	1.0060E+00	86.0	1,1173E+00	1.0173E+00	146.0	2.6146E-01	1.7323E+00
26.0	9.8815E-01	1.0059E+00	88.0	1.1257E+00	1.0263E+00	148.0	1.6141E+00	1.6458E+00
28.0	9.6455E-01	1.0034E+00	90.06	9.7469E-01	1.0299E+00	150.0	2.7240E+00	1.6555E+00
30.0	9.6220E-01	1,0001E+00	92.0	8.2108E-01	1.0260E+00	152.0	2.1189E+00	2.0778E+00
32.0	9.8367E-01	9.9806E-01	94.0	8.5031E-01	1.0217E+00	154.0	5.26746-01	2.6899E+00
34.0	1.0162E+00	9.9838E-01	0.96	1.0522E+00	1.0258E+00	156.0	2.0783E-01	2.7846E+00
36.0	1.0379E+00	1.0012E+00	98.0	1,1990E+00	1.0379E+00	158.0	2.23255+00	2.2791E+00
38.0	1.0323E+00	1.0042E+00	100.0	1.0955E+00	1.0478E+00	160.0	5.0675E+00	2.48B6E+00
40.0	1.0011E+00	1.0055E+00	102.0	8.3412E-01	1.0481£+00	162.0	6.0921E+00	4.7104E+00
45.0	9.6627E-01	1.0042E+00	104.0	7.2629E-01	1.0434E+00	164.0	4.2185E+00	7.5527E+00
44.0	9.55748-01	1.0014E+00	106.0	9.3414E-01	1.0459E+00	166.0	1.4930E+00	7.3032E+00
46.0	9.81535-01	9.9941E-01	108.0	1.2304E+00	1.0598E+00	168.0	3.8976E+00	4.0203E+00
48.0	1.0269E+00	1.0002E+00	110.0	1,2332E+00	1.0757E+00	170.0	2.1615E+01	8.5869E+00
50.0	1.0556E+00	1.0034E+00	112.0	8.9180E-01	1.0826E+00	172.0	6.6062E+01	4.0642E+01
52.0	1.0401E+00	1.0069E+00	114.0	6.1363E-01	1.0824E+00	174.0	1.4120E+02	1.1323E+02
54.0	9.87435-01	1.0079E+00	116.0	7.86586-01	1.0869E+00	176.0	2.3360E+02	2.1467E+02
56.0	9.3922E-01	1.0057E+00	118.0	1.2416E+00	1.1026E+00	178.0	3.1218E+02	3.0619E+02
58.0	9.3947E-01	1.0024E+00	120.0	1,3912E+00	1.1232E+00	180.0	3.4325E+02	3.4325E+02
60.0	9.9382E-01	1.0012E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPMERE

KA=18.4

CROSS SECTION H-PLANE	1.1382E+00	1.1542E+00	1.1697E+00	1.1851E+00	1.2032E+00	1.2379E+00	1.2949E+00	1.3443E+00	1.3515E+00	1.3527E+00	1.4443E+00	1.6316E+00	1.7487E+00	1.6773E+00	1.6386E+00	2.0045E+00	2.6527E+00	2.8551E+00	2.3573E+00	2.3943E+00	4.4822E+00	7.5106E+00	7.6079€+00	4.2147E+00	7.9378E+00	3.9253£+01	1.126BE+02	2.1704E+02	3.1207E+02	3 80726402	13.44.59.5		
NORMALIZED CRO E-PLANE	1.1614E+00	6.0353E-01	4.9627E-01	1.06'43E+00	1.6000E+00	1.3127E+00	F. 09878-01	3.0932E-01	1,12417+00	1.93815+00	1.58075+00	4.3782E-01	1.3217E-01	1.3386.F+00	2.6603F+00	2.3447F+00	7 4606F-01	1.1590E-01	1.9040F+00	4.8533E+00	6 2272E+00	4 58 0F+30	1.67.1:E+00	3.4195E+00	2,03495+01	6.4685E+01	1.4124F+02	2 3660F+02	2 1830F+02	000000000000000000000000000000000000000	3.50/25+02		
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	2.4.	36.0	9 0	9.0	0.041	144.0	146.0	9 6	9.00	200	2.44	0.45	0.00	9.09.		0.191	166.0	0.891	170.0	172.0	174.0	9.4	200	0.00	0.081		
CROSS SECTION M-PLANE		1.005.75.400	1.00345+00	1.01015.00	00000	00.11100.1	1.0055E+00	1.00545+00	1.0166E+00	1.01/1E+00	1.0190E+00	1.01526+00	1.0112E+00	1.01355.00	1.0224E+00	1.0299E+00	1.0296E+00	1.0242E+00	1.0236E+00	1.0328E+00	1.04546+00	1.05056+00	1.04666+00	1.04516400	1.05496+00	1.07185+00	1.0032540	1.08496+00	1.08698+00	1.0991E+00	1.1191E+00		
0		1,0114E+00	1.0701E+00	1.0626E+00	9.87.185-01	9.129/E-01	9.1877E-01	1.0094E+00	1.0970E+00	1.0830E+00	9.6747E-01	8.6727E-01	9.0013E-01	1.0457E+00	1.14546+00	1.0703E+00	8.8513E-01	8.0216E-01	9.3956E-01	1.1542E+00	1.1799E+00	9.52876-01	7.3142E-01	8.0391E-01	1.1254E+00	1.2871E+00	1.04/3E+00	6.7303E-01	6.6266E-01	1.0861E+00	1.4121E+00		
ANGLE		62.0	64.0	99.0	0.90	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	12.0	114.0	116.0	118.0	120.0		
CROSS SECTION H-PLANE		9.85146-01	9.8680E-01	9.9123E-01	9.96316-01	1.0019E+00	1.00485+00	1,0047E+00	1.0024E+00	9.9932E-01	9.9730E-01	9.9748E-01	9.9977E-01	1.00295+00	1.0051E+00	1,0050E+00	1,0029E+00	9,9971E-01	9,9789E-01	9.9858E~01	1,0014E+00	1,06465+00	1,005cE+00	1.0045E+00	1.0016E+00	9.99755-01	1,0008E+00	1.0042E+00	1.0074E+00	1.007BE+00	1.0051E+00	* 0020F+00	20.10.00.1
NORMALIZED C		9.85145-01	9.8947E-01	1.00015+00	1.01116+00	1.015HE+00	1 01046+00	9.9770E-01	9.85415-01	9 8216F-01	9.9180E-01	1.01001001	1.0260F+00	1 72845 +00	1.01295+00	9.8632F-01	9 6467F-01	9. 6352E-01	9. BER9E-01	1.0217E+00		1.0367£+00	1.0014E+00	9.6343E-01		9.8198E-01	1.0290E+00			74055-01	9.74505-01	0.00000	9.46345-01
<u>.</u>		0	0.0	4	0.9	, c	9			9	0.00	0 0	20.00	0.46		9.0	200	30.00	34.0	36.0	0.00		42.0	0.44	46.0	0.87	50.00	20.0			90.0	90	90.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=18.6

62.0 9.5977E-01 1.0013E+00 122.0 64.0 1.0375E+00 1.0073E+00 124.0 66.0 1.0459E+00 1.0177E+00 125.0 66.0 1.0469E+00 1.0177E+00 129.0 72.0 9.5845E-01 1.0053E+00 1330.0 72.0 9.003E-01 1.0053E+00 1330.0 72.0 9.135E-01 1.0053E+00 1340.0 80.0 1.0449E+00 1.013E+00 1440.0 82.0 9.133E-01 1.013E+00 1440.0 82.0 9.133E-01 1.013E+00 1440.0 88.0 1.108E+00 1.013E+00 1440.0 88.0 1.108E+00 1.013E+00 1440.0 88.0 1.108E+00 1.013E+00 1440.0 92.0 9.8228E-01 1.013E+00 1550.0 93.0 1.355E+00 1.023E+00 1550.0 94.0 8.436E-01 1.023E+00 1560.0 102.0 1.2072E+00 1.0504E+00 1660.0 103.0 1.2072E+00 1.0504E+00 1660.0 104.0 8.6070E-01 1.0514E+00 1660.0 112.0 1.2772E+00 1.0514E+00 1660.0 112.0 1.2772E+00 1.0514E+00 1660.0 112.0 1.2772E+00 1.0514E+00 1660.0 113.0 1.2772E+00 1.0572E+00 170.0 114.0 7.99913E-01 1.0892E+00 176.0 118.0 9.1362E-01 1.0867E+00 178.0	ANGLE	NORMALIZED E-PLANZ	ED CROSS SECTION	ANGLE	NORMALIZED C E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED (E-FLANE	NORMALIZED CROSS SECTION E-FLANE H-PLANE
9.8779E-01 9.5779E-01 9.5779E-01 9.5779E-01 9.5779E-01 9.5779E-01 1.0125E+00 9.7596E-01 1.01776+00 9.7596E-01 1.01776+00 9.7596E-01 1.01776+00 9.7596E-01 1.01776+00 9.7596E-01 1.01776+00 9.7596E-01 1.01776+00 9.7596E-01 1.0055E+00 1.0056E-01 1.0055E+00 1.0056E-01		0 48586±01	Q 495 HF-01	62.0	9.5977E-01	1.0013E+00	122.0	1.31115+00	1.1353E+00
1.01251.00 1.00731.00 1.00731.00 1.00731.00 1.20.00 1.00731.00 1.0073		9.57798-01	9.51725-01	64.0	1.0324E+00	1.0027E+00	124.0	7.61345-01	1.1529E+00
1.0125E+00 1.037E+00 1.037E+00 1.037E+00 1.037E+00 1.037E+00 1.037E+00 1.037E+00 1.037E+00 1.035E+00 1.035E+00 1.035E+00 1.035E+00 1.035E+00 1.035E+00 1.035E+00 1.005E+00 1.003E+00 1.003			9.60.195-01	99	1.0731E+00	1.0073E+00	126.0	4.40432-01	1.1698E+00
1.0371E+00 9.8643E-01 1.0351E+00 9.8643E-01 1.0055E+00 1.005E+00 1	_		9.729(E-C1	0.89	1.0469E+00	1.0117E+00	128.0	8.6212E-01	1.1858E+00
1.0.158E.00 9.9804E-01 72.0 9.0085E-01 1.0065E+00 132.0 1.0065E+00 1.0093E+00	_		9.86435-01	70.0	9.5845E-01	1.01216+00	130.0	1.527.1E+00	1.2015E+00
1.0351E+00 1.0055E+00 74.0 9.4115E-01 1.0053E+00 134.0 1.0055E+00 1.0055E+00 76.0 1.0474E+00 1.0073E+00 138.0 1.0055E+00 1.005E+00 1.005F+00 1.005E+00 9.0630E+01 1.0002E+00 9.06.0 9.06.0 9.0630E+01 1.0002E+00 9.06.0 9.06.0 9.06.0 9.0630E+01 1.0002E+00 9.06.0 9.06.0 9.065E+00 1.005E+00 9.06.0 9.065E+00 1.005E+00 1	_		9.9804E-01	72.0	9.008SE-01	1.0085E+00	132.0	1.4813E+00	1.2305E+00
1.01066.00 1.00926.00 76.0 1.0474F400 1.01073E+00 136.0 9.6428E-01 1.000265-00 80.0 1.017F400 1.0138E+00 140.0 9.6428E-01 1.000265-00 80.0 1.017E+00 1.0138E+00 140.0 9.6342E-01 1.000265-00 80.0 1.017E+00 1.0137E+00 1.0137E+00 144.0 9.3305E-01 1.0012E+00 80.0 9.1335E-01 1.0186E+00 1.0137E+00 1.0238E+00 1.023	_	•	1,0056E+00	74.0	9.4115E-01	1.0053E+00	134.0	6.9911E-01	1.2856E+00
9.8428E-C1 1.0065E+00 80.0 1.1077E+00 1.0138E+00 140.0 9.6342E-C1 1.0065E+00 80.0 1.0449E+00 1.0195E+00 140.0 9.6342E-C1 1.005EE+00 80.0 1.0449E+00 1.0195E+00 140.0 9.3305E-C1 1.016EE+00 1.0195E+00 1.0195E+00 144.0 1.016EE+00 1.0195E+00 1.019	٥	٠	1.0092E+00	0.92	1.0474E+00	1.0073E+00	136.0	2.48 PE-01	1.3441E+00
9.6942E-01 1.0026E+00 80.0 1.C499E+00 1.C192E+00 140.0 9.6942E-01 9.9943E-01 9.9342E-01 1.0185E+00 1.0185E+00 144.0 9.9305E-01 9.9943E-01 80.0 9.5507E-01 1.0195E+00 144.0 142.0 1.0156E+00 9.9731E-01 80.0 9.5557E-01 1.0195E+00 1.0179E+00 144.0 1.0204E+00 1.0037E+00 9.0828E-01 1.0179E+00 1.0279E+00	٥		1,0065E+00	78.0	1.1077E+00	1.0138E+00	138.0	8.8203E-01	1.3614E+00
9.7328E-01 9.9837E-01 82.0 9.1335E-01 1.0165E+00 144.0 9.3305E-01 9.0937E-01 9.9731E-01 84.0 8.5800E-01 1.0137E+00 144.0 144.0 1.0166E+00 1.0012E+00 1.0012E+00 1.0102E+00 1.0137E+00 1.0176E+00 1.0012E+00 1.0012E+00 1.0012E+00 1.0019E+00 1.0176E+00 1.0012E+00 1.0012E+00 1.0012E+00 1.0017E+00 1.001	0		1,0026E+00	80.0	1.C-149E+00	1.0192E+00	140.0	1.845:1E+00	1.3539E+00
9.9305E-01 9.9731E-01 84.0 8.5800E-01 1.0113E+00 144.0 1.0105EE+00 9.9305E-01 9.9731E-01 86.0 9.5557E-01 1.0119E+00 1.0179E+00 146.0 1.0204E+00 1.0012E+00 90.0 1.1355E+00 1.0179E+00 1.0179E+00 1.0012E+00 90.0 1.1355E+00 1.0275E+00 1.00179E+00 1.00179P+00 1.00179E+00 1.00179P+00 1.00179E+00 1.0	9		9.9837E-01	82.0	9.1335E-01	1.0185E+00	142.0	1.7727E+00	1.4218E+00
1.0166E+00 9.9813E+01 86.0 9.5557E+01 1.0119E+00 146.0 1.0204E+00 1.0012E+00 1.0012E+00 1.0012E+00 1.0012E+00 1.0012E+00 1.0017E+00 1.0037E+00 1.0038E+00 1.0031E+00 1.0031E+00 1.0031E+00 1.0031E+00 1.0031E+00 1.0031E+00 1.0031E+00 1.0031E+00 1.0031E+00 1.0034E+00 1.0031E+00	۰		9.9731E-01	84.0	8.5800E-01	1.0137E+00	144.0	6.51575-01	1.6064E+00
1.0287E+00 1.0012E+00 90.0 1.1088E+00 1.0179E+00 1.0075E+00 1.0037E+00 90.0 1.1355E+00 1.0275E+00 1.0037E+00 90.0 1.1355E+00 1.0275E+00 1.0275E+00 1.0275E+00 1.0275E+00 1.0276E+00 92.0 92.228E-01 1.0276E+00 1.0276E+00 1.0276E+00 92.0 94.0 8.1479E-01 1.0279E+00 1.0279E+00 1.0276E+00 92.0 94.0 8.1479E-01 1.0279E+00 1.0279E+00 1.0276E+00 1.02	٥		9,9813E-01	96.0	9.5557E-01	1.0119E+00	146.0	6.1727E-02	1.7580E+00
1.0204E+00 1.0037E+00 90.0 1.1355E+00 1.0275E+00 150.0 9.0 9.0 9.228E-01 1.0375E+00 150.0 9.228E-01 1.0376E+00 155.0 9.228E-01 1.0376E+00 155.0 9.6848E-01 1.0028E+00 155.0 9.6848E-01 1.0028E+00 155.0 9.6848E-01 1.0029E+00 155.0 9.8945E-01 1.0029E+00 155.0 9.8945E-01 1.00218E+00 1.0229E+00 1.0229E+00 1.0229E+00 1.0229E+00 1.0229E+00 1.0238E+00 1.0238E+00 1.0238E+00 1.0238E+00 1.0238E+00 1.0051E+00 1.0051E			1.0012E+00	88.0	1.1088E+00	1.0179E+00	148.0	1.0625E+00	1.7115E+00
9.9530E-01 1.0044E+00 99.0 9.828E-01 1.0317E+00 152.0 9.828E-01 1.0029E+00 152.0 9.828E-01 1.00028E+00 94.0 8.1479E-01 1.0279E+00 156.0 94.0 8.1479E-01 1.0279E+00 156.0 94.0 8.1479E-01 1.0238E+00 156.0 98.0 1.0502E+00 1.0228E+00 1.0238E+00 1.	0		1.0037E+00	0.06	1.1355E+00	1.0275E+00	150.0	2.54:12E+00	1.6331E+00
9.7286E-01 1.0028E+00 94.0 8.1479E-01 1.0279E+00 155.0 9.6848E-01 1.0022E+00 95.0 8.4430E-01 1.0238E+00 156.0 9.8945E-01 1.0022E+00 95.0 8.4430E-01 1.0238E+00 1.02286E+00 1.0228E+00 1.0238E+00 1.0237E+00 1.0237E+00 1.0051E+00 1.0050E+00 1.005	۰		1.0044E+00	92.0	9.8228E-01	1.0317E+00	152.0	2.5400E+00	1.9344E+00
9.6R48E-01 1.0002E+00 96.0 8.4430E-01 1.0238E+00 156.0 9.6R48E-01 1.0202E+00 96.0 8.4430E-01 1.0238E+00 1.0246E+00 1.0246E+00 1.0246E+00 1.0246E+00 1.0242E+00 1.0242E+00 1.0242E+00 1.0242E+00 1.0272E+00 1.0272E+00 1.0272E+00 1.0509E+00 162.0 1.0327E+00 1.0051E+00 1.0051E+00 1.0051E+00 1.0650E+00 1.0650E+00 1.0654E+00 1.0654E+00 1.0654E+00 1.0654E+00 1.0654E+00 1.0654E+00 1.0654E+00 1.0644E+00 1.0044E+00 1.0048E+00 1.0048E+00 1.0048E+00 1.0048E+00 1.0076E+00	0		1.0028E+00	94.0	8.1479E-01	1.0279E+00	154.0	9.90098-01	2.6027E+00
9.8945E-01 9.9857E-01 10000 1.0205E+00 1.0205E+00 1.0412E+00 1.0412E+00 1.0412E+00 1.0412E+00 1.0412E+00 1.0412E+00 1.0412E+00 1.0051E+00 1.0051E+00 1.0051E+00 1.0051E+00 1.0051E+00 1.0050E+00 1.0054E+00 1.0054E+00 1.0054E+00 1.0054E+00 1.0054E+00 1.0054E+00 1.0051E+00 1.0050E+00 1.0051E+00 1.0050E+00 1.0051E+00 1.0050E+00 1.005	_		1.0002E+00	0.96	8.4430E-01	1.0238E+00	156.0	7.15 RRE-02	2.9143E+00
1.0229£.00 1.0239£.00 1.0239£.00 1.0239£.00 1.0236£.00 1.0236£.00 1.0031E.00 1.0051E.00 1.0050E.00	_		9.9857E-01	98.0	1 0610E+00	1.0286E+00	158.0	1.58:30:+00	2.4465E+00
1.0436E+00 1.0021E+00 102.0 1.0772E+00 1.0593E+00 162.0 162.0 1.0327E+00 1.0054E+00 164.0 106.0 1.0504E+00 1.0504E+00 164.0 164.0 1.0504E+00 1.0504E+00 164.0 166.0 1.0504E+01 1.0064E+00 106.0 1.06.0 1.0644E+00 1.0644E+00 1.0644E+00 1.0644E+00 1.0644E+00 1.0644E+00 1.0644E+00 1.0644E+00 1.0644E+00 1.0614E+00	_	-	9.9928E-01	100.0	1.2075E+00	1.0412E+00	160.0	4.6070E+00	2.3220E+00
1.0327E+00 1.0051E+00 104.0 8.0070E-01 1.0564E+00 164.0 9.3426E-01 1.0054E+00 166.0 9.3426E-01 1.0054E+00 166.0 9.3426E-01 1.0054E+00 166.0 9.5609E-01 1.0044E+00 106.0 7.2828E-01 1.0554E+00 168.0 9.5017E-01 1.0014E+00 110.0 1.2716E+00 1.0651E+00 172.0 9.53017E-01 1.0014E+00 110.0 1.0012E+00 172.0 113.0 1.0551E+00 1.0822E+00 172.0 1.0551E+00 1.0076E+00 116.0 5.9913E-01 1.0967E+00 176.0 176.0 9.6428E-01 1.0076E+00 120.0 120.0 120.0 1.0567E+00 1.0076E+00 170.0 120.0 1.0567E+00 1.0076E+00 1.007		-	1.0021E+00	102.0	1.0772E+00	1.05095+00	162.0	6.3255F+00	4.2524E+00
9.9426E-01 1.0051E+00 106.0 7.2828E-01 1.0454E+00 166.0 9.5609E-01 1.0044E+00 108.0 9.8834E-01 1.051AE+00 166.0 9.8834E-01 1.0014E+00 110.014E+00 110.0014E+00 110.0014E+00 110.0014E+00 110.0014E+00 110.0014E+00 110.0014E+00 110.0014E+00 110.0014E+00 110.0014E+00 110.0016E+00 110.0016E+00 110.001E+00 110.001E+00 110.0016E+00 110.001E+00 110.	_		1.0051E+00	104.0	8.0070E-01	1.0504E+00	164.0	4.9402E+00	7.4388E+00
9.5609E-01 1.0044E+00 108.0 9.8854E-01 1.054E+00 168.0 9.5609E-01 1.0044E+00 1007E+00 170.0 9.5017E-01 1.0014E+00 1.007E+00 1.007EE+00 1.0012E+00 1.0012E+00 1.0012E+00 1.0012E+00 1.0012E+00 1.0012E+00 1.0001E+00 1.0001E+	٥		1.0051E+00	106.0	7.2828E-01	1.0454E+00	166.0	1.89775+00	7.8980E+00
9.5017E-01 1.0014E+00 110.0 1.2716E+00 1.0671E+00 170.0 9.5017E-01 1.0014E+00 170.0 9.5017E-01 1.0014E+00 1.0020E+00 1.0012E+00 1.0012E+00 1.0012E+00 1.0014E+00 1.00	٥		1.0044E+00	108.0	9.88546-01	1.0514E+00	168.0	2.9952E+00	4.4433E+00
9.8530E-01 9.9976E-01 112.0 1.1847E+00 1.0820E+00 172.0 1.0351E-00 1.0012E+00 114.0 7.9091E-01 1.082E+00 174.0 174.0 1.0560E+00 1.0648E+00 116.0 5.9913E-01 1.0882E+00 176.0 176.0 118.0 9.1362E-01 1.0967E+00 178.0 9.3003E-01 1.0045E+00 1.0045E	0		1.0014E+00	110.0	1.2716E+00	1.0671€+00	170.0	1.9105E+01	7.3367E+00
1.0351E.00 1.0012E+00 114.0 7.9091E-01 1.0872E+00 174.0 174.0 1.0561E+00 1.0048E+00 116.0 5.9913E-01 1.0882E+00 176.0 1.0247E+00 1.0076E+00 118.0 9.1362E-01 1.0967E+00 178.0 9.303E-01 1.0076E+00 120.0 1.3598E+00 1.1150E+00 180.0 9.3003E-01 1.0045E+00	۰		9.9976E-01	112.0	1.1847E+00	1.0820E+00	172.0	6.3268E+01	3.7858E+01
1.0560E+00 1.0048E+00 116.0 5.9913E-01 1.0882E+00 176.0 1.0247E+00 1.0076E+00 118.0 9.1362E-01 1.0967E+00 178.0 9.6428E-01 1.0076E+00 120.0 1.3598E+00 1.1150E+00 180.0 9.3003E-01 1.0045E+00	_		1.0012E+00	114.0	7.9091E01	1.0872E+00	174.0	1.41.1E+02	1.1207E+02
1.0247E+00 1.0076E+00 118.0 9.1362E-01 1.0967E+00 178.0 9.6428E-01 1.0076E+00 120.0 1.3598E+00 1.1150E+00 180.0 9.3003E-01 1.0045E+00	۰	+	1.004BE+00	116.0	5.9913E-01	1.0882E+00	176.0	2.3955E+02	2.1937E+02
9.6428E-01 1.0076E+00 120.0 1.3598E+00 1.1150E+00 180.0 9.3003E-01 1.0045E+00	٥		1.0076E+00	118.0	9.1362E-01	1.0967E+00	178.0	3.2445E+02	3.1799E+02
9.3003E-01	0	9.6428E-01	1.0076E+00	120.0	1.3598E+00	1.1150E+00	180.0	3.5826E+02	3.5826E+02
	0	9.3003E-01	1.0045E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

0 0 1

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=19.0

62.0 9.3673E-01 1.0059E+00 124.0 1.4309E+00 1.1883E+00 1.0059E+01 1.0025E+00 1.22.0 1.1302E+00 1.1883E+00 1.0025E+00 1.0032E+00 1.0032E+00 1.0032E+00 1.0032E+00 1.0032E+00 1.0032E+00 1.0032E+00 1.0025E+00 1.0020E+00 1.0022E+00 1.0022E+00 1.0022E+00 1.0022E+00 1.0022E+00 1.0020E+00 1.00	NORMALIZED CROSS SECTION E-PLAME H-PLAME
9.373E-01 1.0588E-01 1.0688E+00 1.0668E+00 1.0670E+00 1.0670E	
9.9699E-01 1.0025E+00 126.0 5.4528E-01 1.0686E+00 1.0060E+00 128.0 5.253E-01 1.0686E+00 1.0012E+00 130.0 1.1977E+00 9.8655E-01 1.0112E+00 130.0 1.1977E+00 9.8655E-01 1.012E+00 132.0 1.1374E+00 9.1539E-01 1.0060E+00 132.0 1.0374E+00 1.0072E+00 138.0 3.3553E-01 1.0217E+00 1.0072E+00 138.0 3.3553E-01 1.0217E+00 1.0198E+00 1.0198E+00 1.0202E+00 144.0 1.1474E+00 1.0198E+00 1.0198E+00 1.0198E+00 1.0198E+00 1.0202E+00 1.0202E+00 1.0198E+00 1.0198E+00 1.0191E+00 1.0191E+00 1.0191E+00 1.0191E+00 1.0191E+00 1.0290E+00 1.0290E+00 1.0291E+00 1.0	1.01306+00
1.0686E+00 1.0660E+00 128.0 5.2573E-01 1.0688E+00 1.013E+00 132.0 1.197E+00 1.058E+00 1.013E+00 132.0 1.197E+00 132.0 1.013E+00 132.0 1.137.0 1.6415E+00 1.013E+00 132.0 1.137.0 1.137.0 1.037E+00 1.013E+00 132.0 1.137.0 1.137.0 1.037E+00 1.0072E+00 138.0 4.6259E-01 1.086E+00 1.013E+00 142.0 1.497.0 1.097E+00 1.013E+00 144.0 1.497.0 1.090E+00 1.013E+00 1.013E+00 144.0 1.497.0 1.090E+00 1.013E+00 1.013E+00 1.019E+00 1.019E+00 1.019E+00 1.019E+00 1.019E+00 1.019E+00 1.019E+00 1.019E+00 1.019E+00 1.029E+00	1,00/36+00
1.0688E+00 1.0112E+00 130.0 1.197E+00 130.0 1.197E+00 10.05550-01 1.0105E+00 134.0 134.0 1.1374E+00 10.05510-01 1.005E+00 134.0 1.1374E+00 15.39E-01 1.005E+00 134.0 1.1374E+00 1.0217E+00 1.0072E+00 136.0 1.35.0 1.6455E+00 1.0217E+00 1.0072E+00 140.0 1.4977E+00 1.0218E+00 1.0218E+00 142.0 2.009E+00 1.0571E+00 1.0155E+00 144.0 1.1474E+00 1.055E+00 1.0155E+00 144.0 1.1474E+00 1.055E+00 1.0131E+00 1.057E+00 1.0131E+00 1.057E+00 1.0290E+00 1	1.0037E+00
9.8655E-01 1.0138E+00 132.0 1.6415E+00 9.8655E-01 1.0056E+00 134.0 1.1374E+00 9.0345E-01 1.0066E+00 136.0 3.3553E-01 1.0276E+00 1.0277E+00 1.0372E+00 138.0 4.6509E-01 1.0376E+00 1.0376E+00 142.0 2.0009E+00 1.0671E+00 1.022E+00 142.0 2.0009E+00 1.0671E+00 1.0138E+00 144.0 1.1474E+00 1.0509E+00 1.0133E+00 144.0 1.1474E+00 1.0133E+00 144.0 1.033E+00 1.033E+00 143.0 5.5946E-01 1.067E+00 1.033E+00 143.0 5.5946E-01 1.067E+00 1.0298E+00 1.0298E+00 1.5020E+00 1.520.0 2.1755E+00 1.0298E+00 1.0501E+00 1.0209E+00 1.0501E+00 1.0209E+00 1.0501E+00 1.0501E+0	9.9905E-01
9.0345E-01 1.0105E+00 134.0 1.1374E+00 1.0345E-01 1.005E+00 1.0073E+00 1.0070E+00 1.40.0 1.4077E+00 1.0070E+00 1.40.0 1.4077E+00 1.0070E+00 1.40.0 1.4076E+00 1.0070E+00 1.4076E+00 1.0070E+00 1.0070E	9.96a9E-01
9.1539E-01 1.0066E+00 136.0 3.3551E-01 1.0277E+00 1.0072E+00 136.0 3.3551E-01 1.0277E+00 1.0072E+00 136.0 136.0 3.3551E-01 1.0277E+00 1.0072E+00 1.0072E+00 142.0 2.0009E+00 1.0071E+00 1.0132E+00 1.0132E+00 1.0152E+00 1.0152E+00 1.0152E+00 1.0152E+00 1.0152E+00 1.0152E+00 1.0132E+00 1.0131E+00 1.0250E+00 1.0501E+00 1.0050E+00 1.0501E+00 1.0501E+00 1.0050E+00 1.0	9.97588-01
1.0217E+00 1.0072E+00 138.0 4.625=01 1.0051E+00 1.0072E+00 1.0034E+00 1.0034E+00 1.0071E+00 1.4977E+00 1.00571E+00 1.0198E+00 1.0198E+00 142.0 2.0009E+00 1.00571E+00 1.01052E+00 1.40.0 1.01052E+00 1.01052E+00 1.40.0 1.01052E+00 1.01052E+00 1.01052E+00 1.01052E+00 1.0052E+00 1.0052E+00 1.0052E+00 1.0052E+00 1.0052E+00 1.0050E+00 1.50.0 2.1755E+00 1.0052E+00 1.0050E+00 1.50.0 2.1755E+00 1.0052E+00 1.0050E+00 1.50.0 2.1755E+00 1.0052E+00 1.0050E+00 1.0050E+00 1.50.0 2.1755E+00 1.0050E+00 1.005	1.0002E+00
1.0651E+00 1.0134E+00 140.0 1.4977E+00 1.0651E+00 1.00571E+00 1.0198E+00 1.00571E+00 1.00507E+00 142.0 1.00507E+00 1.00507E+00 144.0 1.1424E+00 1.00507E+00 144.0 1.1424E+00 1.00507E+00 144.0 1.0134E+00 1.0191E+00 150.0 2.1735E+00 1.0050E+00 150.0 2.1735E+00 1.0191E+00 1.0290E+00 150.0 2.1735E+00 1.0191E+00 1.0290E+00 150.0 2.1735E+00 1.0291E+00 1.0501E+00 1.0091E+00 1.0501E+00 1.0091E+00 1.0091E+00 1.0092E+00 1.00957E+00 1.00958E+00 1.00958E+	1.0031E+00
1.0571E+00 1.0198E+03 142.0 2.0009E+00 1.0509E+00 1.0551E+00 1.0155E+00 1.0155E+00 1.0155E+00 144.0 1.14276E+00 1.0155E+00 146.0 1.0326E+01 1.0155E+00 148.0 5.5956E+01 1.0155E+00 1.0191E+00 1.0290E+00 152.0 2.8142E+00 1.0290E+00 1.0290E+00 1.0290E+00 1.0290E+00 1.0290E+00 1.0290E+00 1.0290E+00 1.0290E+00 1.0290E+00 1.52.0 2.8142E+00 1.0290E+00 1.0541E+00 1.0541E+00 1.0541E+00 1.0551E+00 1.0501E+00 1.0551E+00 1.0551E+00 1.0501E+00 1.0551E+00 1.0551	1.004cE+00
9.2856E-01 1.02026+00 144.0 1.1476+00 9.2856E-01 1.01331+00 148.0 5.5956E-01 9.0006E-01 1.005E+00 148.0 5.5956E-01 1.0076E+00 14376+00 1.0331+00 1.050E+00 148.0 5.5956E-01 1.0070E+00 1.020E+00 1.0	1.0038E+00
8.5091E-01 1.0155E+00 146.0 1.0326E-01 1.0050E-01 1.0050E-00 1.0050E-01 1.0050E-00 1.0050E-00 1.0050E-00 1.0050E-00 1.0050E-00 1.0050E-00 1.0050E-00 1.0050E-01 1.0050E-00 1.50.0 2.8142E+00 1.0050E-00 1.50.0 1.0050E-00 1.0055E-00 1.	1.0013E+00
9.4060E-01 1.01318.00 148.0 5.59.fe-01 1.0057E+00 1.0191E+00 15.00 2.1735E+00 1.0191E+00 152.0 2.1735E+00 1.0290E+00 152.0 2.1735E+00 1.0290E+00 152.0 2.8142E+00 1.0290E+00 152.0 2.8142E+00 1.0291E+00 1.0291E+00 1.0251E+00 1.0051E+00 1.0052E+00 1.0052E+	9.985RE-01
1.1067E+00 1.0191E+00 150.0 2.1735E+00 1.1067E+00 1.0090E+00 152.0 2.1735E+00 1.1047E+00 1.0290E+00 152.0 2.8142E+00 1.0233E+00 1.525.0E+00 156.0 1.2510E-01 1.0231E+00 1.022E+00 1.0231E+00 1.0231E+00 1.0231E+00 1.0231E+00 1.0231E+00 1.0231E+00 1.0231E+00 1.0231E+00 1.0331E+00 1.0331E+00 1.0331E+00 1.0331E+00 1.0331E+00 1.0331E+00 1.0331E+00 1.0331E+00 1.0331E+00 1.033128E+00 1.0331E+00 1.0001E+00 1.0001E	9.9743E-01
1.1437E+00 1.0290E+00 152.0 2.814ZE+00 9.8210E-01 1.0335E+00 156.0 1.5252E+00 6.0536E-01 1.0335E+00 156.0 1.5250E+00 1.0326E+00 1.0321E+00 156.0 1.0351E+00 1.0321E+00 1.0331E+00 1.0331E+0	9.98635-01
9.8210E-01 1.0335E+00 156.0 1.5257E+00 8.0536E-01 1.0208E+00 156.0 1.5257E+00 15.0251E+00 156.0 1.5257E+00 1.0251E+00 1.0251E+00 1.0251E+00 1.0251E+00 1.0251E+00 1.0251E+00 1.0351E+00 1.0351E+00 1.0351E+00 1.0351E+00 1.0351E+00 1.0551E+00 1.0551E+00 1.0551E+00 1.0551E+00 1.0551E+00 1.0551E+00 1.0551E+00 1.0551E+00 1.0501E+00 1.0551E+00 1.0551E+00 1.0551E+00 1.0551E+00 1.0551E+00 1.0501E+00 1.0501E+00 1.0501E+00 1.0501E+00 1.0501E+00 1.0501E+00 1.0501E+00 1.0501E+00 1.0551E+00 1.0	1.0015E+00
8.0536E-01 1.0298E+00 156.0 1.2500E-01 6.00 4.0536E-01 1.0298E+00 1.0230E+00 158.0 1.010JE+00 1.0220E+00 1.0321E+00 160.0 4.0367E+00 1.0321E+00 160.0 4.0367E+00 1.0424E+00 1.0424E+00 1.0527E+00 1.0527E+00 1.0527E+00 166.0 2.4246+00 1.0527E+00 1.0527E+00 1.0527E+00 1.0527E+00 1.0527E+00 1.0527E+00 1.0527E+00 1.0527E+00 1.0522E+00 1.0522E+00 1.0522E+00 1.0522E+00 1.0522E+00 1.0922E+00 1.0952E+00 1.0953E+00 3.7358E+02	1.0043E+00
1.0828E+00	1.0052E+00
1.0828E+00 1.0321E+00 160.0 4.037E+00 1.0208E+00 1.0245E+00 1.024E+00 1.024E+00 1.024E+00 1.024E+00 1.024E+00 1.024E+00 1.024E+00 1.024E+00 1.024E+00 1.054E+00 1.054E+00 1.054E+00 1.0551E+00 1.0508E+00 1.0551E+00 1.0551E	1.0036E+00
1.2150E+00 1.0454E+00 162.0 6.40.2E+00 1.0424E+00 1.0547E+00 164.0 5.6402E+00 1.0424E+00 1.0527E+00 164.0 5.6402E+00 1.0527E+00 1.0527E+00 166.0 2.3105E+00 1.0643E+00 1.0527E+00 170.0 1.6702E+01 1.0090E+00 1.0752E+00 172.0 6.0339E+01 1.0970E+00 1.0952E+00 174.0 1.4091E+02 6.8163E-01 1.0952E+00 176.0 2.4532E+02 1.0853E+00 1.1085E+00 1.1085E+00 1.1085E+00 1.1085E+00 3.7358E+02	1.000BE+00
1.0424E+00 1.0527E+00 7.5849E-01 7.4685E-01 1.0501E+00 1.0501E+00 1.0501E+00 1.0501E+00 1.0501E+00 1.0501E+00 1.0501E+00 1.0501E+00 1.0501E+00 1.0970E+00 1.0950E+00	9.98 1E-01
7.5899E-01 1.0557E+00 166.0 2.424E+00 7.6895E-01 1.0501E+00 166.0 2.3105E+00 1.0643E-00 1.0502E+00 170.0 1.6702E+101 1.0592E+00 1.0752E+00 172.0 6.0329E+01 1.0957E+00 174.0 1.4091E+02 6.8163E-01 1.0922E+00 176.0 2.4532E+02 6.3603E-01 1.0957E+00 178.0 3.3686E+02 1.0853E+00 1.1085E+00 1.	9.99616-01
7.4685E-01 1.0501E+00 168.0 2.3105E+00 1.05043E+00 1.0502E+01 170.0 1.6702E+01 1.0509E+00 1.0572E+01 172.0 6.0339E+01 1.0957E+00 1.0853E+00 174.0 1.4091E+02 6.8163E-01 1.0957E+00 176.0 2.4522E+02 6.3603E-01 1.0957E+00 178.0 3.3686E+02 1.0853E+00 1.1085E+00 180.0 3.7358E+02	1.0024E+60
1.0643E+00 1.0562E+00 170.0 1.6702E+01 1.3009E+00 1.0752E+01 172.0 6.0329E+01 172.0 6.0329E+01 172.0 174.0 1.4001E+02 6.8163E-01 1.0952E+00 176.0 2.4552E+02 6.3603E-01 1.0957E+00 176.0 3.3686E+02 1.0853E+00 1.1085E+00 1.	1.0052E+00
1.3009E+00 1.0752E+00 172.0 6.0329E+01 1.0970E+00 1.0904E+00 174.0 1.4091E+02 6.8163E-01 1.0925E+00 176.0 2.4532E+02 6.3603E-01 1.0957E+00 178.0 3.3566E+02 1.0853E+00 1.1085E+00 180.0 3.7358E+02	1.0058E+00
1.0970E+00 1.0884E+00 174,0 1.4091E+02 6.8163E-01 1.0922E+00 176.0 2.4537E+02 6.3603E-01 1.0957E+00 178.0 3.3666E+02 1.0853E+00 1.1085E+00 180.0 3.7358E+02	1.0037E+00
6.8163E-01 1.0922E+00 176.0 2.4522E+02 6.3603E-01 1.0957E+00 178.0 3.3686E+02 1.0853E+00 1.1085E+00 180.0 3.7358E+02	1.0009E+00
6.3603E-01 1.0957E+00 178.0 3.3686E+02 1.0853E+00 1.1085E+00 3.7358E+02	1.0004E+00
1.0853E+00 1.1085E+00 180.0 3.7358E+02	1.0030E+00
	1.0070£+00
	1.0088E+00

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.1248E+00	1.1453E+00	1.1660£+00	1.1872E+00	1.2036E+00	1.2183E+00	1.2554E+00	1.3254E+00	1.3822E+00	1.3798E+00	1.3824E+00	1.5166E+00	1.7395E+00	1.8085E+00	1.6777E+00	1.7655E+00	2.3937E+00	3.0079E+00	2.7520E+00	2.2397E+00	3.5864E+00	7.0581E+00	8.6523E+00	5.3047E+00	5.8321E+00	3.3660E+01	1.0981E+02	2.2601E+02	3.3591E+02	3.8136E+02	
NORMALIZED C	1111111	1.3850E+00	1.2933E+00	6.88º7E-01	4.3647E-01	9.9297E-01	1.6176E+00	1.3422E+00	4.7318E-01	3.1926E-01	1.2700E+00	2.0228E+00	1.3891E+00	2.1144E-01	3.55e6E-01	1,93555+00	2.8752E+00	1.79706+00	2.2105E-01	7.75446-01	3.7222E+00	6.3785E+00	5.9619E+00	2.7407E+00	2.0500E+00	1.5547E+01	5.8811€+01	1.4064E+02	2.4813E+02	3.4312E+02	3.8136E+02	
ANGLE	1 0 1 1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE	1111111111	1.0088E+00	1.0061€+00	1.0030E+00	1.0035E+00	1.0081E+00	1.0128E+00	1.0131E+00	1.0092E+00	1.0066E+C0	1.0098E+00	1.0172E+00	1.0215E+00	1.0190E+00	1.0143E+00	1.0159E+00	1.0251E+00	1.0334E+00	1.0332E+00	1.0281E+00	1.0293E+00	1.0408E+00	1.0530E+00	1.0557E+00	1.0521E+00	1.0555E+00	1.0706E+00	1.0867E+00	1.0938E+00	1.0966E+00	1.1064E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		9.76925-01	9.2514E-01	9.4456E-01	1.0236E+00	1,0815E+00	1.0487E+00	9.5006E-01	8.9233E-01	9.5049E-01	1.0701E+00	1.1117E+00	1.0105E+00	8.7305E-01	8.7001E-01	1.0242E+00	1.1540E+00	1.0803E+00	8.7040E-01	7.8957E-01	9.6779E-01	1,1931E+00	1,1515E+00	8.5918E-01	6.9756E-01	9.2066E-01	1.2579E+00	1.2243E+00	8.0997E-01	5.7904E-01	9.1055E-01	
ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	95.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION H-PLANE	1.0	1.0511E+00	1.0478E+00	1.0387E+00	1.0250E+00	1.0127E+00	1.0019E+00	9.9553E-01	9.9409E-01	9.9650E-01	1.0005E+00	1.0037E+00	1.0044E+00	1.0028E+00	1.0002E+00	9.9856E-01	9.9909E-01	1.0014E+00	1.0039E+00	1.0047E+00	1.0031E+00	1.0005E+00	9.9892E-01	9.9997E-01	1.0030E+00	1.0057E+00	1.0059E+00	1.0035E+00	1.0009E+00	1.0010E+00	1.0042E+00	1.0080E+00
NORMALIZED CI E-PLANE		1.0511E+00	1.0414E+00	1.01655+00	9.8700E-01	9.6514601	9.5983E-01	9.7277E-01	9.9732E-01	1.0209E+00	1.0309£+00	1.0220E+00	1.000CE+00	9.7962E-01	9.7514E-01	9.90486-01	1.0152E+00	1.0304E+00	1.0223E+00	9.93935-01	9.65755-01	9.6171E-01	9.8913E-01	1.0290E+00	1.0480£+00	1.026-1E+00	9.7910E-01	9.4739E-01	9.6350E-01	1.0171E+00	1.0582E+00	1.0420E+00
ANGLE		0.0	5.0	4.0	0.9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

TOTAL STATEMENT TO THE PROPERTY OF THE PROPERT

PISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=19.4

SS SECTION		1.1217E+00	1.1420E+00	1.1634E+00	1.1864E+00	1.2052E+00	1.2180E+00	1.2472E+00	1.3144E+00	1.3833E+00	1.3921E+00	1.3803E+00	1.4876E+00	1.7187E+00	1.8325E+00	1.7089E+00	1.7288E+00	2.3119E+00	3.0081E+00	2.8566E+00	2.2561E+00	3.3824E+00	6.8821E+00	8.8571E+00	5.6402E+00	5.4325E+00	3.2268E+01	1.0893E+02	2.2812E+02	3.4194E+02	3.8923E+02	
NORMALIZED CROSS SECTION		1.2758E+00	1.4043E+00	8.68975-01	4.1703E-01	7.8850E-01	1.5263E+00	1.5098E+00	6.5744E-01	2.3603E-01	1.0294E+00	1.9804E+00	1.6161E+00	3.6985E-01	1.9635E-01	1.6748E+00	2.8841E+00	2.0602E+00	3.5762E-01	5.6637E-01	3.3946E+00	6.3154E+00	6.2625E+00	3.0759E+00	1.8434E+00	1.4427E+01	5.7264E+01	1.4030E+02	2.5089E+02	3.4941E+02	3.8923E+02	
- C	71016	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NOPMALIZED CROSS SECTION	TITLANE	1.0087E+00	1.0085E+00	1.0052E+00	1.0029E+00	1.005CE+00	1.0104E+90	1.0140E+00	1.0123E+00	1.0081E+00	1.0077E+00	1.0135E+00	1.0205E+00	1.0217E+00	1.0172E+00	1.0148E+00	1.0209E+00	1.0311E+00	1.0354E+00	1.0314E+00	1.0286E+00	1.0363E+00	1.0500E+00	1.0573E+00	1.0550E+00	1.0547E+00	1.0663E+00	1.0837E+00	1.0945E+00	1.0981E+00	1.1054E+00	
NOPMALIZED C	FFFFFFF	1.0282E+00	9.5705E-01	9.2160E-01	9.6703E-01	1.0527E+00	1.0842E+00	1.0159E+00	9.1503E-01	8.99476-01	1.0003E+00	1.1068E+00	1.0825E+00	9.3827E-01	8.4408E-01	9.31366-01	1,1086E+00	1.1462E+00	9.6939E-01	7.9045E-01	8.5987E-01	1.1150E+00	1.2146E+00	9.8735E-01	7.1464E-01	7.9239E-01	1,1568E+00	1.2998E+00	9.66548-01	5.9236E-01	7.4907E-01	
	ANGLE	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE	1 03725+00	1.03546+00	1.0305E+00	1.0230E+00	1.01416+00	1.00525+00	9.9818E-01	9.9438E-Ci	9.94358-01	9.9734E-01	1.0015E+00	1.0047E+00	1,0053E+00	1.0034E+00	1.0004E+00	9,9835E-01	9.9864E-01	1.0010E+00	1.0036E+00	1.0045E+00	1.0031E+00	1,0006E+00	9.9934E-01	1.0007 = +00	1.0039E+00	1.0062E+00	1.0058E+00	1.0031E+00	1.00CBE+00	1.0017E+00	1.0054E+00
NORMAL12ED C	E-PLANE	1 03725+00	•	1.01665+00	9.96285-01	9.76acE-01	9.6511E-01	9.6684E-01	9.83146-01	1.0082E+00	0	0	1.0231E+00	9.96156-01	9.7181E-01	9.6598E-01	9.8347E-01	1,0129E+00	1.0328E+00	1.0267E+00		9.68305-01	9.65108-01	9.9438E-01		1.0466E+00					1.0296E+00	¥
	ANGLE		0	4	9	0	0.01	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	20.0	52.0	54.0	56.0	58.0	0.08

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=19.6

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=19.8

NORMALIZED CROSS SECTION	HITTE	1.1175E+00	1.1358E+00	1.1570E+00	1.1820E+00	1.2071E+00	1.2215E+00	1.2370E+00	1.2902E+00	1.3745E+00	1.4147E+00	1.3915E+00	1.4404E+00	1.6610E+09	1.8592E+00	1.7849£+00	1.6903E+00	2.1451E+00	2.9613E+00	3.0527E+00	2.3482E+00	3.0176E+00	6.4696E+00	9.1850E+00	6.3645E+00	4.7881E+00	2.9515E+01	1.0699E+02	2.3215E+02	3.5409E+02	4.0520E+02	
NORMALIZED C	FIFTANE	9.454SE-01	1.42046+00	1.235CE+00	5.8177E-01	4.7551E-01	1.18735+00	1.6738E+00	1.0931E+00	2.6802E-01	5.75128-01	1.71095+00	1.9581E+00	7.97825-01	3.4789E-02	1.1291E+00	2.7475E+00	2.52M5E+00	7.3644E-01	2.6379E-01	2.7214E+00	6.0735E+00	6.78636+00	3.8035E+00	1.5878E+00	1.2301E+01	5.409BE+01	1.3939E+02	2.5626E+02	3.6210E+02	4.0520E+02	
	ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	HIPLANE	1.0041E+00	1.0083E+00	1.0097E+00	1.0072E+00	1.0040E+00	1.0048E+00	1.0039E+00	1.0145E+00	1.0139E+00	1.0096E+00	1.0084E+00	1.0139E+00	1.0214E+00	1.0231E+00	1.0186E+00	1.0164E+00	1.0231E+00	1.0335E+00	1.0372E+00	1.0329E+00	1.0315E+00	1.0413E+00	1.0551E+00	1.0603E+00	1.0577E+00	1.0607E+30	1.0756E+00	1.0923E+00	1.1007E+0C	1.1058E+00	
NORMALIZED C	FIFTANE	1.0593E+00	1.0536E+00	9.8385E-01	9.2188E-01	9.4168E-01	1.0303E+00	1.0879E+00	1.0372E+00	9.25615-01	8.8686E-01	9.8153E-01	1.1034E+00	1.0920E+00	9.4178E-01	8.3755E-01	9.3068E-01	1.1184E+00	1,1454E+00	9.4618E-01	7.7542E-01	8.8816E-01	1.1580E+00	1.2000E+00	9.1212E-01	6.83226-01	8.7561E-01	1,2522E+00	1.2452E+00	8.0291E-01	5.6372E-01	
	A 10 10 10 10 10 10 10 10 10 10 10 10 10	62.0	64.0	0.99	68.0	70.0	72.0	74.0	0.92	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	HIPLANE	9.5444E-01	9.5762E-01	9.6636E-01	9.7847E-01	9.9095E-01	1.0009E+00	1.0063E+00	1.0058E+00	1.004CE+00	1.0003E+00	9.97°0E-01	9.9809E-01	1.0003E+00	1.0028E+00	1.0038E+00	1.0026E+00	1.0003E+00	9.98776-01	9.9943E-01	1.0019E+00	1.0014E+00	1.0049E+00	1.0030E+00	1.0004E+00	9.9973E-01	1.0018E+00	1.0051E+00	1.0065E+00	1.0049E+00	1.0020E+00	1.0012E+00
NORMALIZED C	FIFTANE	9.5444E-01	9.6370E-01	1	1.0160E+00	•					9.7324E-01			+	1.0206E+00	•	9.7851E-01	9.7292E-01	9.9116E-01	1.0209E+00	1.0375E+00	1.0239E+00	1					1.0413E+00	9.9731E-01	9.4994E-01	9.4975E-01	1.0037E+00
	ANGLE	0.0	5.0	4.0	9.0	0. 8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	0.04	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

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1004.40 80 24.40 80 24.40 80 80 80 80 80 80 80 80 80 80 80 80 80	9.6636E-01 9.7170E-01 9.8659E-01 1.0071E400 1.00562E+00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			H-PLANE	ANG LE		
	.6636E-01 .7170E-01 .8659E-01 .0071E:00 .0263E+00		-	11111111	1111111111			
· ማ ማ	.0071E400 .0071E400 .0263E+00 .03621+00	9.6636E-01	62.0	1.0225E+00	1.0021E+00	122.0	7.7638E-01	1.1164E+00
on	.0071E400 .0263E+00 .0263E+00 .02622+00	9.6802E-01	64.0	1.0658E+00	1.0058E+00	124.0	1.3364E+00	1.1332E+00
	.0071E:00 .0263E:00 .0252::00	9.7294E-01	0.99	1.03465+00	1.0095E+00	126.0	1.3736E+00	1.1537E+00
	.0263E+00 .0252:+00 .0312E+00	9.8023E-01	0.89	9.5454E-01	1.0095E+00	128.0	7.4316E-01	1.1787E+00
	.03521+00	9.8907E-01	70.0	9.1481E-01	1.00616+00	130.0	4.0228E-01	1.2065E+00
	.0312E+00	9.9767E-01	72.0	9.6956E-01	1.0039E+00	132.0	9.81095-01	1.2242E+00
- o o o o o o o o		1.0042E+00	74.0	1.0635E+00	1.0068E+00	134.0	1.6556E+00	1.2354E+00
	.0123E+00	1.0072E+00	76.0	1,0825E+00	1.0126E+00	136.0	1.3045E+00	1.2787E+00
	.3756E-01	1.0065E+00	78.0	9.9040E-01	1.0154E+00	138.0	3.78718-01	1.3651E+00
· თ თ თ თ თ	.69545-01	1.0031E+00	90.08	8.9069E-01	1.0125E+00	140.0	3.9686E-01	1.4226E+00
o o o o	. 5877E-01	9.9926E-01	82.0	9,1417E-01	1.00B8E+00	142.0	1.5207E+00	1.4030E+00
	.8692E-01	9.9700E-01	84.0	1.0470E+00	1.0108E+00	144.0	2.0531E+00	1.4245E+00
	.0133E+00	9.9744E-01	86.0	1,1234E+00	1.0184E+00	146.0	1.0432E+00	1.6271E+00
→ o o o	.0321E+00	1.00CJE+00	88.0	1.0280E+00	1.0239E+00	148.0	3.88586-02	1.8602E+00
- - on on o	.0285E+00	1,0029E+00	90.0	8.6734E-01	1.0219E+00	150.0	8.6642E-01	1.8254E+00
<i>.</i>	.0046£+00	1.0042E+00	92.0	8.5840E-01	1.0173E+00	152.0	2.6077E+00	1.6890E+00
თთ	.7773E-01	1.0032E+00	94.0	1,0358E+00	1.0198E+00	154.0	2.71926+00	2.0651E+00
a	.69295-01	1.0008E+00	0.96	1.1684E+00	1.0300£+00	156.0	9.678PE-01	2.9157E+00
•	.8742E-01	9.9916E-01	98.0	1.0524E+00	1.0379E+00	158.0	1.7412E-01	3.1390E+00
_	.0182E+00	9.9974E-01	100.0	8.1994E-01	1.0362E+00	160.0	2.3872E+00	2.4206E+00
-	.03455+00	1.0022E+00	102.0	8.0053E-01	1.0322E+00	162.0	5.8907E+00	2.8613E+00
-	.01918+00	1.0044E+C0	104.0	1.0547E+00	1.037GE+00	164.0	7.0082E+00	6.2382E+00
o	.8207E-01	1.004GE+00	106.0	1.2327E+00	1.0516E+00	166.0	4.1880E+00	9.3051E+00
46.0 9	.5647E-01	1.0025E+00	108.0	1.0441E+00	1.0611E+00	168.0	1.5368E+00	6.7465E+00
48.0 9	.69525-01	1.0002E+00	110.0	7.2390E-01	1.0604E+00	170.0	1.1300E+01	4.5431E+00
50.0	.01396+30	1.0001E+00	112.0	7.5468E-01	1.0603E+00	172.0	5.2486E+01	2.8158E+01
52.0 1	.0489E+00	1.0027E+00	114.0	1,1405E+00	1.0717E+00	174.0	1.3882E+02	1.05925+02
54.0 1	.0369E+00	1.0059E+00	116.0	1.3157E+00	1.0894E+00	176.0	2.5887E+02	2.3407E+02
on	.8432E-01	1.0067E+00	118.0	9.6084E-01	1.1010E+00	178.0	3.6849E+02	3.6020E+02
0	.4257E-01	1.0044E+00	120.0	5.6861E-01	1.1067E+00	180.0	4.1330E+02	4.1330E+02
	9.5900E-01	1.0018E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=20.2

CROSS SECTION H-PLANE	 1.1160E+00	1.1312E+00	1.1506E+00	1.1749E+00	1.204BE+00	1.2267E+00	1.2359E+00	1.2689E+00	1.3531E+00	1.4271E+00	1.4170E+00	1.4145E+00	1.5921E+00	1.85276+00	1.86475+00	1.6989E+00	1.9905E+00	2.8569E+00	3.2144E+00	2.5077E+00	2.7249E+00	5.9940E+00	9.3946E+00	7.1374E+00	4.3491E+00	2.6819E+01	1.0480E+02	2.35936+02	3.6633E+02	4.2148E+02	
NORMALIZED C E-PLANE	6.4022E-01	1.1948E+00	1.4547E+00	9.3127E-01	3.9724E-01	7.761EE-01	1.5719E+00	1.4858E+00	5.4076E-01	2.6894E-01	1.2931E+00	2.0894E+00	1.2917E+00	9.9009E-02	6.24915-01	2.4266E+00	2.8727E+00	1.2183E+00	1.2824E-01	2.06158+00	5.6909E+00	7.1959E+00	4.5812E+00	1.5352E+00	1.0344E+01	5.0858E+01	1.3818E+02	2.6142E+02	3.7491E+02	4.2148E+02	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE	1.0017E+00	1.0032E+00	1.0075E+00	1.0103E+00	1.0087E+00	1.0051E+00	1.0048E+00	1.0096E+00	1.0149E+00	1.0151E+00	1.0109E+00	1.0093E+00	1.0148E+00	1.0227E+00	1.0244E+00	1.0199E+00	1.0182E+00	1.0259E+00	1.0364E+00	1.0390E+00	1.0344E+00	1.0353E+00	1.04736+00	1.0602E+00	1.0630E+30	1.0612E+00	1.0586E+00	1.0858E+00	1.1004E+00	1.1076E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	 9.7335E-01	1,04185+00	1,0651E+00	1,0081E+00	9,2912E-01	9.2372E-01	1.0093E+00	1.08835+00	1,0555E+00	9.3739E-01	8.80205-01	9.7066E-01	1.1043E+00	1.0982E+00	9.3843E-01	8.3081E-01	9.3910E-01	1,1346E+00	1.1361E+00	9.0929E-01	7.6338E-01	9.3442E-01	1.2027E+00	1,1579E+00	8.1947E-01	6.8205E-01	9.9783E-01	1.3207E+00	1.1179E+00	6.39966-01	
ANGLE	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION H-P! ANE	1.0116E+00	1.0100E+00	1.0060E+00	1.0014E+00	9.9805E-01	9.9722E-01	9.9882E-01	1.0016E+00	1.0037E+00	1.0032E+00	1.0020E+00	9.99395-01	9.97815-01	9.9840E-01	1.0008E+00	1.0035E+00	1.0044E+00	1.0031£+00	1.0005E+00	9.98978-01	9.99765-01	1.0024E+00	1.0046E+00	1.0044E+00	1.0022E+00	1.0002E+00	1.0008E+00	1.0038E+00	1.00GE+00	1.0065E+00	1.0037E+00
	1.01165+00	1.0076E-00	9.9855E-01	9.91465-01	9.9195E-01	1.0003E+00	1.01105+00	1.0158E+00	1.0096E+00	9.9443E-01	9.801RE-01	9.7838E-01	9.93365-01	1.0168E+00	1.0318E+00	1.02495+00	9.9843E-01	9.7098E-01	9.6498E-01	9.87646-01	1.02185+00	1.0376E+00	1.0182E+00	9.78865-01	9.5697E-01	9.7756E-01	1.0247E+00	1.05146+00	1.0251E+00		9.3717E-01
# 15M	0.0	0	0.4	0.9	8	0.01	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

ACTION CONTRACTOR OF STREET ST

KA=20.4

NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.11616+00	1.1297E+00	1.14796+00	1.1710€+00	1.2020E+00	1.2286E+00	1.2382E+00	1.2613E+00	1.3395E+00	1.4276E+00	1.4321E+00	1.4108E+00	1.5578E+00	1.8370E+00	1.9008E+00	1.7193E+00	1.9235E+00	2.7866E+00	3.2769E+00	2.6073E+00	2.6097E+00	5.7399E+00	9.4529E+00	7.5339E+00	4.20556+00	2.5501E+01	1.0363E+02	2.3774E+02	3.7249E+02	4.2975E+02	
NORMALIZED C E-PLANE		5.5750E-01	1.0230E+00	1.4693E+00	1.1219E+00	4.59856-01	5.9626E-01	1.4317E+00	1.6206E+00	7.4015E-01	2.000BE-01	1.0524E+00	2.0648E+00	1.5293E+00	2.1148E-01	4.1402E-01	2.2106E+00	2.9842E+00	1.4807E+00	1.2577E-01	1.7495E+00	5.4527E+00	7.3495E+00	4.9794E+00	1.5814E+00	9.43406+00	4.9217E+01	1.3746E+02	2.6392E+02	3.8136E+02	4.2975E+02	
ANGLE	1 1 1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CROSS SECTION H-PLANE	f	1.0030E+00	1.0019E+00	1.0048E+00	1.0092E+00	1.0105E+00	1.0075E+00	1.0047E+00	1.0067E+00	1.0127E+00	1.0163E+00	1.0139E+00	1.0099E+00	1.0118E+00	1.0197E+00	1.0253E+00	1.0231E+00	1.0188E+00	1.0224E+00	1.0333E+00	1.0402E+00	1.0375E+00	1.0348E+00	1.0432E+00	1.0577E+00	1.0647E+00	1.0632E+00	1.0668E+00	1.0820E+00	1.0987E+00	1.1082E+00	
NGRMALIZED CI E-PLANE		9.3981E-01	9.9586E-01	1.0604E+00	1.0551E+00	9.7621E-01	9.1350E-01	9.5026E-01	1.0523E+00	1.0923E+00	1.0059E+00	8.9194E-01	9.0413E-01	1.0430E+00	1.1276E+00	1.0253E+00	8.5624E-01	8.5998E-01	1.0558E+00	1.1735E+00	1.0178E+00	7.8604E-01	8.2863E-01	1.1188E+00	1.2278E+00	9.4804E-01	6.7221E-01	8.5306E-01	1.2607E+00	1.2466E+00	7.6488E-01	
ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	98.0	90.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION H-PLANE	1:11111	1.0452E+00	1.0419E+00	1.032BE+00	1.0206E+00	1.0095E+00	9 99:15E-01	9.95135-01	9.95445-01	9.98525-01	1.0021E+00	1.0039E+00	1.00315+00	1.0008E+00	9.98945-01	9.98985-01	1.0009E+00	1.0032E+00	1.0039£+00	1.0026E+00	1.00C2E+00	9.9899E-01	1.00C2E+00	1.0030E+00	1.0050E+00	1.0044E+00	1.0020E+00	1.0003E+00	1.0016E+00	1.0049E+00	1.0071E+00	1.0060E+00
NORMALIZED C E-PLANE		1.0452E+00	1.0355E+00	1.0113E+00	9.8398E-01	9.66515-01	9.66665-01	9.8354E-01	1.00755+00	1.0245E+00	1.0246£+00	1.00825+00	9.8737E-01	9.7784F-01	9.87465-01	1.0092[+00	1.0253E+00	1.0204E+00	9.9559E-01	9.70465-01	9.6829E-01	9.9494E-01	1.0296E+00	1.0403E+00	1.0133E+00	9.71156-01	9.55015-01	9.84695-01	•	1.0490E+00	1.0088E+00	9.506EE-01
ANGLE	1	0.0	2.0	4	9	0	10.0	12.0	0.4	16.0	0.81	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	0.04	42.0	44.0	46.0	48.0	20.0	52.0	54,0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=20.6

NORMALIZED CROSS SECTION E-P.ANE H-PLANE	1.1164E+00	1.1288E+00	1.145BE+00	1.1672E+00	1.1982E+00	1.2293E+00	1.241BE+00	1.2563E+00	1.3251E+00	1.4239E+00	1.4469E+00	1.4132E+00	1.5258E+00	1.8138E+00	1.9318E+00	1.7488E+00	1.8658E+00	2.7068E+00	3.3251E+00	2.7167E+00	2.5170E+00	5.4788E+00	9.4797E+00	7.9327E+00	4.1116E+00	2.4206E+01	1.0240E+02	2.3947E+02	3.7867E+02	4.3809E+02	
NORMALIZED E-PLANE	5.3996F-01	8.4609E-01	1.4100E+00	1.2907E+00	5.81595-01	4.60168-01	1.2492E+00	1.6970E+00	9.5939E-01	1.9451E-01	8.1485E-01	1.9813E+00	1.743CE+00	3.7011E-01	2.4190E-01	1.9676E+00	3.0503E+00	1.7481E+00	1.6592E-01	1.4557E+00	5.1874E+00	7.4675E+00	5.3789E+00	1.6732E+00	8.5713E+00	4.7565E+01	1.3668E+02	2.6635E+02	3.8784E+02	4.3809E+02	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1.00526+00	1.0024E+00	1.0027E+00	1.0068E+00	1.0106E+00	1.0100E+00	1.0064E+00	1.0052E+00	1.0096E+00	1.0155E+00	1.0163E+00	1.0122E+00	1.0104E+00	1.0161E+00	1.0242E+00	1.0257E+00	1.0210E+00	1.0204E+00	1.0293E+00	1.0395E+00	1.0405E+00	1.0362E+00	1.0400E+00	1.0540E+00	1.0650E+00	1.0657E+00	1.0663E+00	1.0784E+00	1.0962E+00	1.1083E+00	
NORMALIZED C E-PLANE	39535-01	9.52586-01	1,0235E+00	1,0715E+00	1.0315E+00	9.4203E-01	9.1297E-01	9.9130E-01	1.0856E+00	1.0671E+00	9.4369E-01	8.7330E-01	9.6398E-01	1,1059E+00	1.0979E+00	9.2549E-01	8.2379E-01	9.5777E-01	1,1550E+00	1.1147E+00	8.6133E-01	7.6434E-01	1.0027E+00	1.2384E+00	1.0805E+00	7.2593E-01	7.3474E-01	1.1478E+00	1.3245E+00	9.2156E-01	
ANGLE	62.0	64.0	0.99	0.89	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION IE H-PLANE	00130300	1.03316+00	1.0277E+00	1.019RE+00	1.0107E+00	1.0024E+00	9.9660E-01	9.9449E-01	9.95995-01	9.9965E-01	1.0032E+00	1.004BE+00	1.0036E+00	1.0009E+00	9.9874E-01	9.9860E-01	1.0005E+00	1.0029E+00	1.0038E+00	1.0025E+00	1.0003E+00	9.9942E-01	1.0010E+00	1.0037E+00	1.0053E+00	1.0041E+00	1.0015E+00	1.0004E+00	1.0024E+00	1.0058E+00	1.0072E+00
NORMALIZED (E-PLANE	1 1	1.03905+00	•			9.6695E-01	9.74205-01	9.9447E-01	1.0183E+00	1.0323E+00	1.0272E+00	1.0052E+00	9.8022E-01	9.6943E-01	9.8129E-01	1,0076E+00		1.0240E+00	9.9812E-01	9.7233E-01	9.71815-01	1.00045+00				9.6088E-01	9.5505E-01				1
ANGLE			4	9	8	0.01	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=20.8

62.0 9.7079E-01 1.0072E+00 122.0 5.8910E-01 64.0 9.333E-01 1.0044E+00 126.0 128.0 6.8956E-01 68.0 1.0434E+00 1.0023E+00 126.0 1.3030E+00 72.0 9.7351E-01 1.0043E+00 128.0 1.4168E+00 72.0 9.9477E-01 1.0039E+00 132.0 7.474E-01 72.0 9.9477E-01 1.0039E+00 132.0 7.474E-01 72.0 9.9477E-01 1.0030E+00 132.0 7.474E-01 72.0 9.9477E-01 1.0030E+00 132.0 7.474E-01 72.0 9.9477E-01 1.0030E+00 132.0 7.474E-01 78.0 1.0455E+00 1.013E+00 140.0 2.5176E-01 88.0 1.0455E+00 1.0130E+00 140.0 2.5176E-01 88.0 1.0455E+00 1.0150E+00 144.0 1.8044E+00 98.0 1.0455E+00 1.0150E+00 145.0 2.5176E-01 99.0 1.1377E+00 1.026E+00 155.0 1.764E+00 99.0 1.0446E+00 1.026E+00 156.0 2.4700E-01 102.0 9.6755E+01 1.0203E+00 156.0 2.4700E-01 104.0 7.5691E-01 1.0246E+00 162.0 4.8999E+00 106.0 1.1872E+00 1.0424E+00 162.0 4.8999E+00 114.0 6.654E+00 1.052E+00 163.0 1.3522E-01 114.0 1.1873E+00 1.052E+00 172.0 4.5532E+00 116.0 1.1873E+00 1.052E+00 172.0 4.3532E+02 118.0 1.0037E+00 1.052E+00 172.0 4.3532E+02 118.0 1.0037E+00 1.055E+00 172.0 4.4652E+02 118.0 1.0037E+00 1.075E+00 172.0 4.4652E+02 118.0 1.0037E+00 1.075E+00 1.075E+00 172.0 4.4652E+02	ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ROSS SECTION H-PLANE	ANGLE	NORMALIZED (E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
9.9573E-01 9.956E-01 9.956E-01 9.9575E-01 9.9576E-01 9.		0 00355-01	9 9235F-01	62.0	9.7079E-01	1.0072E+00	122.0	5.8910E-01	1.1167E+00
10003E+00 9.977E-01 66.0 9.7351E-01 1.002E+00 126.0 1.4416E+00 1.0003E+00 1.00		9.95735-01	9.9369E-01	64.0	9.3393E-01	1.0044E+00	124.0	6.8956E-01	1.1282E+00
100092E+00 10009E+00 1.0043E+00 1.0043E+00 1.0043E+00 1.00092E+00 1.0009E+00 1.0		1.00335+00	9.9707E-01	0.99	9.7351E-01	1.0023E+00	126.0	1.3030E+00	1.1442E+00
9.945E-01 1.0055E+00 1.0056E+00 1.0056E+00 1.30.0 To 7.00 9.942E-01 1.0056E+00 1.0056E+00 1.30.0 To 7.00 1.0056E+00 1.30.0 To 7.00 9.943E-01 1.0019E+00 72.0 9.9478E-01 1.0056E+00 134.0 1.0430E+00 9.853E-01 9.955E-01 9.955E-01 1.0056E+00 1.0056E+00 1.0056E+00 1.0056E+00 1.0016E+00 9.853E-01 9.955E-01 1.0036E+00 1.0056E+00 1.0036E+00		1 0092F+00	1.00095+00	68.0	1.0494E+00	1.0043E+00	128.0	1.4168E+00	1.1639E+00
9.9925E-01 1.0038E+00 74.0 9.9478E-01 1.0113E+00 133.0 3.8177E-01 9.8925E-01 1.0038E+00 74.0 9.1417E-01 1.0090E+00 138.0 1.0430E+00 9.8925E-01 1.0038E+00 76.0 9.1417E-01 1.0090E+00 138.0 1.10430E+00 1.0070E+00 136.0 1.0031E+00 1.0005E+00 1.00005E+00 1.000005E+00 1.000005E+00 1.0000000000000000000000000000000000	o a	1.0079F+00	1.0035E+00	70.0	1.0676E+00	1.0089E+00	130.0	7.4734E-01	1.1937E+00
9.8932E-01 1.0019E+00 74.0 9.1417E-01 1.0090E+00 134.0 1.0430E+00 9.8632E-01 9.9934E-01 78.0 9.1417E-01 1.0090E+00 136.0 1.7087E+00 9.9532E-01 9.9934E-01 78.0 1.095E+00 1.0070E+00 138.0 1.7087E+00 1.010E+00 9.9934E-01 78.0 1.095E+00 1.0130E+00 144.0 2.5176E-01 1.010181E+00 1.0030E+00 84.0 8.977E-01 1.0150E+00 144.0 1.9816E-01 1.0131E+00 1.0131E+00 1.0131E+00 144.0 1.9816E-01 1.0131E+00 1.0030E+00 84.0 8.977E-01 1.0150E+00 144.0 1.8444E-00 1.9316E+00 1.0030E+00 86.0 89.76E-01 1.0150E+00 144.0 1.9816E-01 1.0030E+00 9.995E-01 1.0030E+00 9.995E-01 1.0030E+00 9.997E-01 1.0030E+00 1.0330E+00		9 9925F-01	1.0038E+00	72.0	9.9478E-01	1.0113E+00	132.0	3.8177E-01	1.2287E+00
9.8672E-01 9.934E-01 9.934E-01 9.9352E-01 1.01016+00 9.9352E-01 1.01016+00 9.9352E-01 1.00106+00 9.9301E-01 1.00106+00 1.		9 89325-01	1.00195+00	74.0	9.1417E-01	1.0090E+00	134.0	1.0430E+00	1.2458E+00
9.9553E-01 9.9778E-01 9.9778E-01 9.9758E-01 9.9758E-01 9.978E-01 9.9953E-01 10.0106E+00 9.9953E-01 10.0106E+00 9.9958E-01 10.0106E+00 9.9958E-01 10.0106E+00 9.9958E-01 10.0106E+00 9.9958E-01 10.0005E+00 10.0005E+00 9.9958E-01 10.0003E+00 9.0959E-01 10.0003E+00 9.0959E-01 10.0003E+00 9.09000E-01 9.0900E-01 10.0003E+00 9.0001 10.0131E-00 10.0031E-00 10.0	4	9.8672F-01	9.9934E-01	76.0	9.3341E-01	1.0056E+00	136.0	1.7087E+00	1.2541E+00
10110E+00 9.9928E-01 1010E+00 140.0 2.515E-01 10219E+00 1.0015E+00 1.0005E+00 1.0000E+00 1.0005E+00 1.0000E+00		9 9553F-01	9.9778E-01	78.0	1.0399E+00	1.0070E+00	138.0	1.1801E+00	1.3111E+00
1.0219E+00 1.0030E+00 1.0110E+00 1.0172E+00 142.0 5.9634E-01 1.0181E+00 1.0030E+00 1.003E+00			9.9828F-01	80.0	1.0965E+00	1.0130E+00	140.0	2.5176E-01	1.4161E+00
1.0181E+00 1.0030E+00 1.0181E+00 1.0150E+00 144.0 1.844E+00 1.0181E+00 1.0030E+00 1.0030E+0	000	1.0219F+00	1.0005E+00	82.0	1.0143E+00	1.0172E+00	142.0	5.9634E-01	1.4601E+00
9.9956E-01 1.0040E+00 86.0 8.9758E-01 1.0110E+00 146.0 1.9516E+00 1.0040E+00 88.0 1.0453E+00 1.0110E+00 146.0 1.9516E+00 1.0003E+00 97.093E+00 1.0137E+00 1.0214E+00 150.0 1.1514E-01 1.00218E+00 9.00.0 1.1377E+00 1.0214E+00 150.0 1.1514E-01 1.00214E+00 1.0224E+00 1.003E+00 1.003E+00 1.003E+00 1.0214E+00 1.0203E+00 1.003E+00	20.00	1.01816+00	-	84.0	8.8977E-01	1.0150E+00	144.0	1.84446+00	1.4210E+00
9.7821E-01 1.0028E+00 1.0453E+00 1.0131E+00 1.48.0 5.6667E-01 9.7821E-01 1.0028E+00 9.7821E-01 1.0268E+00 1.0268E+00 1.514E-01 9.783E-01 1.0045E+01 9.9871E-01 94.0 8.4120E-01 1.0268E+00 152.0 1.7064E+00 1.0145E+00 9.9871E-01 94.0 8.4120E-01 1.0266E+00 154.0 3.0693E+00 1.0345E+00 9.9871E-01 1.0370E+00 1.0256E+00 158.0 2.4700E-01 1.0255E+00 1.0081E-01 1.0256E+00 1.0370E+00 1.60.0 1.1849E+00 9.5797E-01 1.0025E+00 1.02.0 9.765E-01 1.0424E+00 160.0 1.1849E+00 9.6797E-01 1.0035E+00 1.02.0 9.765E-01 1.038E+00 160.0 1.759E+00 1.0346E+00 1.0003E+00 1.1876E+00 1.038E+00 1.60.0 1.759E+00 1.0346E+00 1.0042E+00 1.187E+00 1.038E+00 1.750E+00 1.750E+00 1.0349E-01 1.0035E+00 1.038E+00 <td< td=""><th>0.42</th><td>9956F-01</td><td>-</td><td>96.0</td><td>8.9758E-01</td><td>1.0110E+00</td><td>146.0</td><td>1.9216E+00</td><td>1.4978E+00</td></td<>	0.42	9956F-01	-	96.0	8.9758E-01	1.0110E+00	146.0	1.9216E+00	1.4978E+00
9.7093E-01 1.0003E+00 90.0 1.1317E+00 1.0214E+00 150.0 1.1564E-01 1.7064E+00 1.0266E+00 1.0246E+00 1.025E+00 1.025E+00 1.0276E+00 1.	26.0	9.7821E-01	_	88.0	1.0453E+00	1.0131E+00	148.0	5.6667E-01	1.7842E+00
9.8615E-01 9.9847E-01 9.0405E+00 9.0617E-01 9.0405E+00 9.0617E-01 9.0405E+00 9.0617E-01 9.0405E+00 9.0617E-01 1.0245E+00 9.0407E-01 1.0245E+00 9.0407E-01 1.0245E+00 9.0407E+00 9.0407E-00 9.0407E+00	28.0	9.7093E-01	_	0.06	1.13'7E+00	1.0214E+00	150.0	1.15146-01	1.9562E+00
1.0145E+00 9.9871E-01 94.0 8 4120E-01 1.0240E+00 154.0 3.0693E+00 1.033E+00 1.0034E+00 1.0034E+00 1.0256E+00 158.0 2.0131E+00 1.025E+00 1.0034E+00 1.0870E+01 1.0256E+00 158.0 2.4700E-01 9.948E+01 1.0041E+00 1.0256E+00 1.0370E+00 160.0 1.1849E+00 9.796E+01 1.0025E+00 100.0 1.1727E+00 1.0342E+00 160.0 1.1849E+00 9.7976E+01 1.0035E+00 104.0 7.5691E-01 1.0345E+00 160.0 1.7891E+00 1.0346E+00 1.0045E+00 106.0 8.831E+01 1.0499E+00 166.0 5.7759H+00 1.0346E+00 1.0045E+00 1.06.0 8.831E+00 1.0499E+00 166.0 7.7591E+00 1.0349E+00 1.0045E+00 1.06.0 8.335E+00 1.0679E+00 174.0 7.591E+00 9.5449E-01 1.0052E+00 114.0 6.654E-01 1.0679E+00 174.0 2.6890E+01 9.5211E-01 1.0035E+00	30.0	9.8615E-01		92.0	1.0146E+00	1.0268E+00	152.0	1.7064E+00	1.7857E+00
1.0336E+00 1.0009E+00 96.0 8 7095E+01 1.0203E+00 156.0 2.4700E+01 1.0255E+00 1.0255E+00 1.0255E+00 1.0255E+00 1.0255E+00 1.0255E+00 1.025E+00 1.025E+00 1.0270E+00 1.022E+00 1.022E+00 1.0270E+00 1.027	32.0	1.0145E+00		94.0	8.4120E-01	1.0240E+00	154.0	3.0693E+00	1.8188E+00
1.0255E+00 1.0034E+00 1.0870E+00 1.0256E+00 158.0 2.4700E-01 1.0255E+00 1.0034E+00 1.0034E+00 1.00304E+00 1.00304E+00 1.0030E+00 1.0030	34	1.0336E+00	•	96.0	8.7095E-01	1.0203E+00	156.0	2.0131E+00	2.6197E+00
9.9488E-01 1.0041E+00 1.027E+00 1.0370E+00 160.0 1.1849E+00 160.0 1.1849E+00 10025E+00 10025E+00 1002.0 9.675E=01 1.0428E+00 162.0 9.7589E+00 10032E+00 10032E+00 10030E+00 1004.0 7.5691E=01 1.0388E+00 166.0 5.7759E+00 10032E+00 1.0032E+00 1004.0 1.1881E+00 1.0499E+00 166.0 5.7759E+00 1.034E+00 1.0042E+00 1106.0 8.8315E-01 1.0499E+00 166.0 5.7759E+00 1.0349E+00 1.0042E+00 1106.0 8.8315E+01 1.0679E+00 170.0 7.7591E+00 172.0 4.5908E+01 172.0 9.5449E-01 1.0052E+00 114.0 6.6554E-01 1.0672E+00 172.0 4.5908E+01 1.0672E+00 172.0 4.5908E+01 1.0672E+00 172.0 4.5908E+01 1.0312E+00 172.0 4.5908E+00 1.0338E+00 1.0344E+00 1.0348E+00 1.0344E+00 1.0348E+00	36.0	1.02558+00	-	98.0	1,0870E+00	1.0256E+00	158.0	2.4700E-01	3.3578E+00
9.6797E-01 1.0025E+00 102.0 9.6765E-01 1.0424E+00 162.0 4.8989E+00 104.0 7.5691E-01 1.0385E+00 164.0 7.5493E+00 104.0 7.5691E-01 1.0385E+00 165.0 9.7759E+00 1.0346E+00 1.0035E+00 1.0049E+00 1.0346E+00 1.0049E+00 1.0079E+00 1.0079E+	38.0	9.94885-01	_	100.0	1.1727E+00	1.0370E+00	160.0	1.1849E+00	2.8331E+00
9.7080E-01 1.0003E+00 104.0 7.5691E-01 1.0388E+00 164.0 7.5493E+00 16.003E+00 100.03E+00 110.00	40.0	9.6797E-01	-	102.0	9.6765E-01	1.0424E+00	162.0	4.8989E+00	2.4472E+00
1.0032E+00 9.9970E-01 106.0 8.8315E-01 1.0385E+00 166.0 5.7759E+00 1.034E+00 1.0015E+00 1.081.E+00 1.0638E+00 1.0638E+00 17591E+00 1.0312E+00 1.0042E+00 112.0 8.3052E+01 1.0638E+00 172.0 4.5908E+01 9.5449E-01 1.0035E+00 114.0 6.6554E-01 1.0679E+00 172.0 4.5908E+01 9.5449E-01 1.0035E+00 114.0 6.6554E-01 1.0672E+00 174.0 1.3592E+02 1.0124E+00 1.0036E+00 1.0337E+00 1.0737E+00 1.0737E+00 1.0737E+00 1.0756E+00 4.4652E+02 1.0344E+00 1.0036E+00 1.0036E+00 1.076E+00 1.076E+00 4.4652E+02	42.0	9.7080E-01	•	104.0	7,5691E-01	1.0388E+00	164.0	7.5493£+00	5.2138E+00
1.0346E+00 1.0045E+00 1.0045E+00 1.08.0 1.1881E+00 1.0499E+00 168.0 1.8085E+00 1.0342E+00 1.0042E+00 112.0 112.0 1.0579E+00 1.0579E+00 172.0 4.5908E+01 1.0052E+00 112.0 8.3052E+01 1.0679E+00 172.0 4.5908E+01 172.0 4.5908E+01 172.0 4.5908E+01 1.0035E+00 114.0 6.6554E+01 1.0672E+00 174.0 1.3592E+02 1.0124E+00 1.0030E+00 118.0 1.3385E+00 1.0930E+00 176.0 2.6873E+02 1.0124E+00 1.0030E+00 120.0 1.0834E+00 1.1076E+00 180.0 4.4652E+02 180.0 4.4652E+02	44	1.0032E+00		106.0	8,8315E-01	1.0385E+00	166.0	5.7759E+00	9.4747E+00
1.0312E+00	6.0		1.0015E+00	108.0	1,1881E+00	1.0499E+00	168.0	1.8085E+00	8.3303£+00
9.9163E-01 1.0052E+00 112.0 8.3052E-01 1.0679E+00 172.0 4.5908E+01 9.5163E-01 1.0052E+00 172.0 4.5908E+01 1.0052E+00 1.0035E+00 1.0037E+00 1.0037E+00 1.0037E+00 1.0037E+00 1.0037E+00 1.0030E+00 1.00	6	1.0312F+00	1.0042F+00	110.0	1,1873E+00	1.0638E+00	170.0	7.7581E+00	4.0662E+00
9.5449E-01 1.0035E+00 114.0 6.6554E-01 1.0672E+00 174.0 1.3532E+02 9.5449E-01 1.0010E+00 176.0 2.6873E+02 1.0174E+00 1.0030E+00 1.0336E+00 1.0930E+00 1.0930E+00 1.0930E+00 1.0930E+00 1.0930E+00 1.0930E+00 1.0930E+00 1.0934E+00 1.0036E+00 1.0036E+00 1.0036E+00 1.0036E+00 1.0036E+00 1.0036E+00 1.0036E+00 1.0036E+00 1.0034E+00 1.0068E+00 1.0036E+00 1.0036E+00 1.0036E+00 1.0036E+00 1.0034E+00 1.0036E+00 1.00	0		1.0052E+00	112.0	8.3052E-01	1.0679E+00	172.0	4.5908E+01	2.2936E+01
9.0211E-01 1.0010E+00 116.0 1.0037E+00 1.0755E+00 176.0 2.6873E+02 1.0124E+00 1.0008E+00 1.0008E+00 1.0030E+00 1.0036E+00 1.0036E+00 1.0036E+00 1.0068E+00	20.0		1.0035F+00	114.0	6.65545-01	1.0672E+00	174.0	1.3582E+02	1.0111E+02
1.0124E+00 1.0008E+00 1.0008E+00 1.0036E+00 1.0030E+00 1.0036E+00 1.0036E+00 1.0036E+00 1.0036E+00 1.0034E+00 1.0034E+00 1.0068E+00	. 45	- 1	1.0010E+00	116.0	1.0037E+00	1.0755E+00	176.0	2.6873E+02	2.4115E+02
1.0530E+00 1.0036E+00 120.0 1.0834E+00 1.1076E+00 180.0 4.4652E+02 1.0344E+00 1.0068E+00	28.0	1.01245+00	-	118.0	1.3385E+00	1.0930E+00	178.0	3.9435E+02	3.8487E+02
1.0344E+00 1.0068E+00	58.0		_	120.0	1.0834E+00	1.1076E+00	180.0	4.4652E+02	4.4652E+02
	60.0	•	_						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=21.0

NDRMALIZED CROSS SECTION E-PLANE M-PLANE	1.1169E+00	1.1279E+00	1.1431E+00	1.1611E+00	1.1888E+00	1.2265E+00	1.2496E+00	1.2545E+00	1.2984E+00	1.4048E+00	1.4704E+00	1.4333E+00	1.4749E+00	_	_	1.82B0E+00	1.7837£+00	2.5275E+00	3.3741E+00	•••	•••	•	_	8.7237E+00	4.0682E+00	•	9.9775E+01	2.42756+02	••	4.5502E+02	
NORMALIZED E-PLANE	6.9631E-01	5.7590E-01	1.1465E+00	1.48506+00	9.3724E-01	3.6878E-01	8.33936-01	1.6556E+00	1.3841E+00	3.66735-01	4.1140E-01	1.6632E+00	2.0556E+00	7.91236-01	3.8370E-02	1.43665+00	3.0409E+00	2.2686E+00	3.6648E-01	9.4105E-01	4.5913E+00	7.5940€+00	6.1668E+00	1.9851E+00	6.9961E+00	4.4248E+01	1.3489E+02	2.7105E+02	4.00885+02	4.5502E+02	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1.0077E+00	1.0067E+00	1.0036E+00	1.0028E+00	1.0063E+00	1.0107E+00	1.0111E+00	1.0075E+00	1.0058E+00	1.0099E+00	1.0161E+00	1.01735+00	1,0132E+00	1.0116E+00	1.0179E+00	1.0260E+00	1.0268E+00	1.0221E+00	1.0230E+00	1.0334E+00	1.0426E+00	1.0418E+00	1.0386E+00	1.0461E+00	1.0611€+00	1.0692E+00	1.0689E+00	1.0737E+00	1.0896E+00	1.1061E+00	
NORWALIZED (1.0152E+00	9.4890E-01	9.3671E-01	1.0014E+00	1.0681E+00	1.0469E+00	9.5294E-01	9.0485E-01	9.7641E-01	1.0830E+00	1,0751E+00	9.4606E-01	8.6828E-01	9.6573E-01	1,1156E+00	1.0931E+00	9.0506E-01	8.2138E-01	9.9028E-01	1.1761E+00	1.0755E+00	8.0687E-01	7.8919E-01	1.0895E+00	1.2452E+00	9.6315E-01	6.5826E-01	8.55985-01	1.2873E+00	1.2236E+00	
ANGLE	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION F-PLANE H-PLANE	9.5961E-01	9.6280E-01	9.7145E-01	9.8309E-01	9.9447E-01	1.0027E+00	1.0061E+00	1.0052E+00	1.0019E+00	9.9889E-01	9.9800E-01	9.9944E-01	1.001BE+00	1.0032E+00	1.0025E+00	1.0005E+00	9.9899E-01	9.9940E-01	1.0016E+00	1.0038E+00	1.0040£+00	1.0022E+00	1.0000E+00	9.9984E-01	1.0021E+00	1.0047E+00	1.0051E+00	1.0030E+00	1.0009E+00	1.0016E+00	1.0050E+00
NORMALIZED C	9.5961E-01	9.6E86E-01	9.922E-01	1.0183E+00	1.0341E+00	1.0315E+00	1.0128E+00	9.8985E-01	9.7671E-01	9.8120E-01	9.9926E-01	1.01716+00	1.0205E+00	1.0058E+00	9.8477E-01	9.7621E-01	9.9012E-01	1.0167E+00	1.0321E+00	1.01946+00	9.8633E-01	9.6242E-01	9.7267E-01	1.0106E+00	1.0396E+00	1.02715+00	9.81995-01	9.5181E-01	9.7404E-01	1.0295E+00	1.05555+00
ANG	0.0	5.0	0.4	9.0	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=21.2

ANGLE	NORMAL IZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED C	VORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED C E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
11111								
0.0	9.6809E-01	9.6809E-01	62.0	1.0486E+00	1.0064E+00	122.0	8.4420E-01	1.1166E+00
5.0	9.7394E-01	9.6994E-01	64.0	9.8925E-01	1.0079E+00	124.0	5.2105E-01	1.1277E+00
0.4	9.8984E-01	9.7522E-01	99	9.3244E-01	1.0058E+00	126.0	9.6838E-01	1.1424E+00
0.9	1.0106E+00	9.8308E-01	0.89	9.5300E-01	1.0030E+00	128.0	1.487EE+00	1,1591E+00
8.0	1.0278E+00	9.9200E-01	70.0	1.0343E+00	1.0040E+00	130.0	1.1239E+00	1.1840£+00
10.0	1.0333E+00	1.0000E+00	72.0	1.0742E+00	1.0086E+00	132.0	4.2170E-01	1.2228E+00
12.0	1.02315+00	1.0052E+00	74.0	1.0108E+00	1.0118E+00	134.0	6.4262E-01	1.2527E+00
14.0	1.0014E+00	1.0066E+00	76.0	9.1759E-01	1.0101E+00	136.0	1.5432E+00	1.2572E+00
16.0	9.79485-01	1.0045E+00	78.0	9.2271E-01	1.0065E+00	138.0	1.5545E+00	1.2879E+00
18.0	9.7018E-01	1.0008E+00	80.0	1.0330E+00	1.0075E+00	140.0	5.2999E-01	1.3907E+00
20.0	9.80118-01	9.9788E-01	82.0	1.1016E+00	1.0136E+00	142.0	2.7203E-01	1.4770E+00
22.0	1.0037E+00	9.9729E-01	84.0	1.0189£+00	1.0181E+00	144.0	1.4488E+00	1.4490E+00
24.0	1.0251E+00	9.9915E-01	86.0	8.8567E-01	1.0160E+00	146.0	2.1380E+00	1.4581E+00
26.0	1.0230E+00	1.0019E+00	88.0	8.9680E-01	1.0121E+00	148.0	1.0325E+00	1.7115E+00
28.0	1.00955+00	1.0036E+00	90.06	1.0559E+00	1.0148E+00	150.0	1.4068E-02	1.9804E+00
30.0	9.83835-01	1.0030E+00	92.0	1.1346E+00	1.0235E+00	152.0	1.1676E+00	1.8738£+00
32.0	9.7293E-01	1.0009E+00	94.0	9.9365E-01	1.0283E+00	154.0	2.9661E+00	1.7611E+00
34.0	9.87235-01	9.9930E-01	96.0	B.2332E-01	1.0249E+00	156.0	2.5077E+00	2.4328E+00
36.0	1.0149E+00	9.9969E-01	98.0	8.9387E-01	1.0222E+00	158.0	5.21016-01	3.3737E+00
38.0	1.02955+00	1.0018E+00	100.0	1.1251E+00	1.0296E+00	160.0	7.2785E-01	3.0762E+00
40.0	1.0145E+00	1.0037E+00	102.0	1.1559E+00	1.0411E+00	162.0	4.2683E+00	2.3778E+00
42.0	9.812CE-01	1.0037E+00	104.0	9.0038E-01	1.0442E+00	164.0	7.6012E+00	4.6843E+00
44.0	9.62435-01	1.0017E+00	106.0	7.4347E-01	1.0403E+00	166.0	6.5480E+00	9.3711E+00
46.0	9.83875-01	9.99835-01	108.0	9.6674E-01	1.0435E+00	168.0	2.2005E+00	9.1099E+00
48.0	1.0221E+00	1.0003E+00	110.0	1.2426E+00	1.0575E+00	170.0	6.2862E+00	4.1163E+00
50.0	1.0437E+00	1.0030E+00	112.0	1.0958E+00	1.0693E+00	172.0	4.2587E+01	2.04835+01
52.0	1.0187E+00	1.0053E+00	114.0	7.1347E-01	1.0709E+00	174.0	1.3390E+02	9.8391E+01
54.0	9.6942E-01	1.0049E+00	116.0	7.3242E-01	1.0731E+00	176.0	2.7331E+02	2.4429E+02
56.0	9.5052E-01	1.0025E+00	118.0	1.1812E+00	1.0863E+00	178.0	4.0744E+02	3.97345+02
58.0	9.88295-01	1.0010E+00	120.0	1.3196E+00	1.1040E+00	180.0	4.6360E+02	4.6360E+02
0.09	1.0435E+00	1.0028E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=21.4

S SECTION H-PLANE		.1158E+00	.1275E+00	.1420E+00	.1578E+00	.1797E+00	2180E+00	.2544E+00	.2616E+00	.2801E+00	.3748E+00	.4792E+00	.4667E+00	.4480E+03	.6719E+00	9791F+00	000E+000	75125+00	33875400	2.3302E+00	1. 3300E +00	3.19726+00	2.3777E+00	4.4258E+00	9.2740E+00	9.4859E+00	4.2089E+00	1.9305E+01	9.69616+01	2.4577E+02	4.0360E+02	4.7227E+02		
NORMALIZED CROSS SECTION E-PLANE H-PLANE		_	_	7.9305E-01	-	-	5.3379E-01	4.8764E-01	1.3823E+00 1	1.6773E+00 1	7.2845E-01 1	1.8694E-01 1	1.2143E+00 1	2.1645E+00 1	1 2784F+00 1	A 2456F-02	10-10000			• •	-						_		_		-	•		
ANGLE	:	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	0.00	2 0	200	0.70	20.00	126.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0		
CROSS SECTION H-PLANE		1.0042E+00	1.0075E+00	1.0077E+00	1.0047E+00	1.0031E+00	1.0060E+00	1.01086+00	1.0120E+00	1.00866+00	1 0065F+00	1 0106F+00	1 01215+00	0000000	1.01036+00	1.01415+00	1.0130E+00	1.0201E+00	1.0280E+00	1.0278E+00	1.0233E+00	1.0264E+00	1.0380E+00	1.0454E+00	1.0429E+00	1.0423E+00	1.0536E+00	1.0680E+00	1 0728F+00	1 07355400	1 08365+00	1 10136+00	20135101	
NORMALIZED C E-PLANE	* * * * * * * * * * * * * * * * * * * *	1.0540E+00	1.0336E+00	9.6242E-01	9.2856E-01	9.8359E-01	1.0642E+00	1 0603E+00	6434F-01	0.01056-01	0 6778F-01	108365400	0000000	001111000	9.41955-01	8.5303E-01	9.7446E-01	1.1264E+00	1.0783E+00	8.7534E-01	8.2643E-01	1.0354E+00	1.1881E+00	1.0129E+00	7.5654E-01	8.4909E-01	1 1814F+00	0004F400	1000E-01	A 55005-01	0000000	00100000	1.35025100	
ANGLE		62.0	64.0	99	9 0	20.0		2 6		9.0		2 6	0.76	0.6	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	0.00					0.00	20.00	120.0	
CROSS SECTION		00190000	000000	00:10000.1	1.0034E+00	9.99/46-01	9.9/605-01	9.9786E-01	1.0000E+00	1.0025E+00	1.0036E+00	1.0026E+00	1.0003E+00	9.98358-01	9.9820E-01	1.0001E+00	1.0026E+00	1.0038E+00	1.0029E+00	1.0006E+00	9.99075-01	0.00736101	10000 F	1 00305+00	1 00356+00	1,000,000	0.00148+00	9.99985-01	1.0011E+00	1.0040E+00	1.0057E+00	1.0045E+00	1.0019E+00	1.0013E+00
0	FIFEANCE		1.00825+00	1.004/E+00	9.97375-01	9.9283E-01	9.95675-01	1.0045E+00	1.0126E+00	1.01251+00	1.0019E+00	9.8710E-01	9.7980E-01	9.8821E-01	1 0087E+00	1.0260E+00	1.0248E+00	1.0030E+00	9.7682E-01	G GRAKF-01	9.0930E 0	10000				W. 1777 P. 0	9.63991-01		1.0309E+00	1.0413E+00	1.0036E+00	9.5568E~01	9.5412E-01	1.0068E+00
	ANGLE) (o (0.4	0.9	o :	0.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	90.		9 6	200	0.0	,	9.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

AND THE PROPERTY OF THE PROPER

KA=21.6

S SECTION H-PLANE	11456+00	.1271E+00	.1416E+00	.1571E+00	.1761E+00	.2123E+00	.2543E+00	.2670E+00	.2755E+00	.3581E+00	.4767E+00	.4849E+00	4447E+00	.6324E+00	.9687E+00	.9672E+00	.7538E+00	2.2459E+00	3.3234E+00	3.3143E+00	2.3997E+00	4.1752E+00	9.14B1E+00	9.8489E+00	4.3442E+00	1.8162E+01	9.5485E+01	2.4718E+02	4.0988E+02	4.8101E+02	
D CROSS		- -	_	_	_	-	-	-	-	_	_	-	-	-	_	-	-	_							_						
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1 16515+00	6.0605E-01	6.434E-0	1.30(-01+00	1.42986+00	6.9199E-01	3.8365E-01	1.1878E+00	1.7427E+00	9.463cE-01	1.6108E-01	9.7403E-01	2.1340E+00	1.51706+00	1.2159E-01	6.6921E-01	2.6830E+00	2.9113E+00	9.18:0E-01	4.0433E-01	3.5930E+00	7.5030E+00	7.2643E+00	2.7375E+00	5.0250E+00	3.9274E+01	1.3170E+02	2.7764E+02	4.2064E+02	4.8101E+02	
ANGLE	122 0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NCI	1 6	000	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	00+	
ROSS SECTI H-PLANE	1 00005	1,0057E+00	1.00835+00	1.0069E+00	1.0039E+00	1.0041E+00	1.0086E+00	1.0124E+00	1.0111E+00	1.0074E+00	1.0082E+00	1.0146E+00	1.0192E+00	1.0169E+00	1.0131E+00	1.0168E+00	1.0260E+00	1.0297E+00	1.0256E+00	1,0247E+00	1.0343E+00	1.0450E+00	1.C456E+00	1.0427E+00	1.0501E+00	1.0654E+00	1.0739E+00	1.0747E+00	1.0817E+00	1.0984E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1 0 305 6 400	1.0581E+00	1 0098E+00	9.3909E-01	9.4037E-01	1,0221E+00	1.0785E+00	1.0231E+00	9.1969E-01	9.1466E-01	1.0295E+00	1,1046E+00	1.0155E+00	8.7619E-01	9.0037E-01	1.0728E+00	1.1323E+00	9.6073E-01	8.0749E-01	9.3335E-01	1.1647E+00	1,1153E+00	8.2408E-01	7,637RE-01	1.0762E+00	1,2568E+00	9.5373E-01	6.3955E-01	8.8864E-01	1.3280E+00	
ANGLE	2 6 6	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	. 88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	108.0	109.0	110.0	112.0	114.0	116.0	118.0	120.0	
NO.	! 6	3 6	80	000	00	10	10	0.1	00	00	00	00	10	0	00	00	00	00	00	Ģ	00	00	00	00	90	00	00	00	00	o o	o o
ROSS SECTI H-PLANE	0.0000	1.0367F+00	1.0278E+00	1.0162E+00	1,0053E+00	9.9793E-0	9.9542E-0	9.969E-0	1.0003E+00	1.0029E+00	1.0032E+00	1.0015E+00	9.9916E-0	9.98916-0	1.0003E+00	1.0024E+00	1.0034E+00	1.0023E+00	1.0002E+00	9.9909E-01	1.9002E+00	1.0027E+0(1.0042E+0(1.0034E+00	1.0011E+00	1.0002E+00	1.0019E+00	1.0043E+00	1.0057E+00	1.0037E+00	1.0014E+00
NORMALIZED CROSS SECTION E-PLANE H-PLANE		• ••	1.0069£+00	•	,	٠.	9.9297E-01	1.0141E:00	1.02355+00	1.01535+00	9.9623E-01	9.8206E-01	9.8476E-01	1.0026E+00	1.0200E+00	1.0198E+00	9.9939E-01	9.7584E-01	9.7245E-01	9.9618E-01	1.0270E+00	1.0239E+00	1.0065E+00	9.7012E-01	9.63895-01	9.98065-01	1.0371E+00	1.0341E+00	9.86546-01	9.4714E-01	9.6722E-01
ANGLE			4	9.0	60	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	26.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=21.8

	NORMAL12ED	RMALIZED CROSS SECTION		NORMALIZED C	NORMALIZED CROSS SECTION		NORMAL! ZED	NORMALIZED CROSS SECTION
ANGLE	E-P:ANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
0	1.0330F+00	1.03305+00	62.0	9.8847E-01	1.0015E+00	122.0	1.2879E+00	1.1127E+00
7	1.0265E+00	1.0309E+00	64.0	1.0497E+00	1.0036E+00	124.0	7.3130E-01	1.1264E+00
4	•	1.0251E+00	0.99	1.0491E+00	1.0074E+00	126.0	5.40/3E-01	1.1412E+00
0.9		1.0168E+00	68.0	9.7781E-01	1.0CB5E+00	128.0	1.1461E+00	1.1569E+00
9.0	9.7340E-01	1.0078E+00	70.0	9.2515E-01	1.0059E+00	130.0	1.50-156+00	1.1735E+00
10.0	9.7015E-01	1.0002E+00	72.0	9.68355-01	1.0036E+00	132.0	8.7858E-01	1.2063E+00
12.0	9.8221E-01	9.9577E-01	74.0	1.0580E+00	1.0061E+00	134.0	3.4026E-01	1.2524E+00
14.0	1.0044E+00	9.9522E-01	76.0	1.0678E+00	1.0112E+00	136.0	9.77586-01	1.2726E+00
16.0	1.02415+00	9.9780E-01	78.0	9.7000E-01	1.0128E+00	138.0	1.7459E+00	1.2741E+00
18.0	1.0287E+00	1.0015€+00	80.0	8.9594E-01	1.0095E+00	140.0	1.1677E+00	1.3417E+00
20.0		1.0039E+00	82.0	9.6238E-01	1.0073E+03	142.0	1.95446-01	1.4696E+00
22.0	9.90136-01	1.0038E+00	84.0	1.0860E+00	1.0116E+00	144.0	7.4214E-01	1.5023E+00
24.0	9.7402E-01	1.0017E+00	86.0	1.0788E+00	1.0182E+00	146.0	2.0486E+00	1.4479E+00
26.0	9.7868E-01	9.9928E-01	88.0	9.30785-01	1.0192E+00	148.0	1,7358E+00	1.5948E+00
28.0	1.0009E+00	9.9858E-01	90.06	8.5943E-01	1.0149E+00	150.0	2.4749E-01	1.9495E+00
30.0		1.0000E+00	92.0	9.9269E-01	1.0147E+00	152.0	4.5715E-01	2.0105E+00
32.0	1.0229E+00	1.0022E+00	94.0	1,1392E+00	1.0228E+00	154.0	2.4935E+00	1.7682E+00
34.0		1.0032E+00	96.0	1,0525E+00	1.0301E+00	156.0	3.0655E+00	2.1583E+00
36.0	9.7711E-01	1.0022E+00	98.0	8.4152E-01	1.0285E+00	158.0	1.1519E+00	3.274BE+00
38.0	9.7582E-01	1.0002E+00	100.0	8.4782E-01	1.0248E+00	160.0	2.9816E-01	3.4249E+00
40.0		9.9949E-01	102.0	1.0928£+00	1.0307E+00	162.0	3.2497E+00	2.4428E+00
42.0	1.0298E+00	1.0009E+00	104.0	1,1812E+00	1.0429£+00	164.0	7.3995E+00	3.9353E+00
44.0	1.3289E+00	1.0033E+00	106.0	9.28316-01	1.0477E+00	166.0	7.6014E+00	8.9945E+00
46.0	9.9508F-01	1.0043E+00	108.0	7,29785-01	1.044E+00	168.0	3.0535E+00	1.0196E+01
48.0	9.6183E-01	1.0029E+C0	110.0	9.5069E-01	1.0477E+00	170.0	4.4755E+00	4.5204E+00
50.0		1.0007E+00	112.0	1,2525E+00	1.0621E+00	172.0	3.7630E+01	1,7055£+01
52.0	1.0103E+00	1.0004E+00	114.0	1.0895E+00	1.074CE+00	174.0	1.3051E+02	9.3966E+01
54.0	1.0434E+00	1.0028E+00	116.0	6,85435-01	1.0764E+00	176.0	2.7971E+02	2.4851E+02
56.0	1.0244E+00	1.0054F+00	118.0	7,53996-01	1.0807E+00	178.0	4.2727E+02	4.1618E+02
58.0		1.0054E+00	120.0	1.2406E+00	1.0955E+00	180.0	4.8984E+02	4.8984E+02
0.09	9.4638E-01	1.0029E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=22.0

CROSS SECTION	H-PLANE		1.1105E+00	1.1253E+00	1.1406E+00	1.1569E+00	1.1718E+00	1.2004E+00	1.2486E+00	1.2776E+00	1.2757E+00	1.3267E+00	1.4583E+00	1.5173E+00	1.4572E+09	1.5608E+00	1.9224E+00	2.0490E+00	1.7934E+00	2.0776E+00	3.2120E+00	3.5266E+00	2.5054E+00	3.7084E+00	8.8151E+00	1.0525E+01	4.7355E+00	1.5988E+01	9.2407E+01	2.4978E+02	4.2249E+02	4.9874E+02	
NORMALIZED CR	E-PLANE		1.3590E+00	8.8894E-01	4.967RE-01	9.6598E-01	1.5159E+00	1.0732E+00	3.6097E-01	7.7108E-01	1.6875E+00	1.3752E+00	2.86956-01	5.3350E-01	1.9135£+00	1.9273E+00	4.1421E-01	2.7985E-01	2.2702E+00	3.1823E+00	1.4009E+00	2.3077E-01	2.9087E+00	7.2614E+00	7.9127E+00	3.3969E+00	3.9808E+00	3.59988+01	1.2925E+02	2.8171E+02	4.3392E+02	4.9874E+02	
	ANGLE	1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
IOSS SECTION	H-PLANE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0023E+00	1.0021E+00	1.0053E+00	1.0086E+00	1.0080E+00	1.0048E+00	1.0044E+00	1.0087E+00	1.0130E+00	1.0119E+00	1.0082E+00	1.0091E+00	1.0159E+00	1.0203E+00	1.0175E+00	1.0143E+00	1.0194£+00	1.0287E+00	1.0309E+00	1.0265E+00	1.0281E+00	1.0397E+00	1.0485E+00	1.0469E+00	1.0466E+00	1.0584E+00	1.0729E+00	1.0779E+00	1.0806E+00	1.0929E+00	
NORMALIZED CROSS SECTION	E-PLANE		9.5322E-01	1.0134E+00	1.0601E+00	1.024BE+00	9.4497E-01	9.2927E-01	1.0097E+00	1.0795E+00	1.0301E+00	9.1892E-01	9.0982E-01	1.0321E+00	1.1084E+00	1.00615+00	8.6488E~01	9.1321E-01	1.0975E+00	1.1221E+00	9.1708E-01	8.0225E-01	9.9243E-01	1.1943E+00	1.0429E+00	7.5395E-01	8.3291E-01	1.1899E+00	1.1997E+00	7.8387E-01	6.5944E-01	1.1095E+00	
	ANGLE		62.0	64.0	0.99	68.0	20.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE	11111111	9.9521E-01	9.9636E-01	9.991RE-01	1,0021E+00	1.0036E+00	1.0029E+00	1.0007E+00	9.9852E-01	9.9737E-01	9.9941E-01	1.0018E+00	1.0034E+00	1.0030E+00	1.0009E+00	9.9888E-01	9.9864E-01	1.0004E+00	1.0027E+00	1.0035E+00	1.0022E+00	1.0002E+00	9.9972E-01	1.0015E+00	1.0037E+00	1.0041E+00	1.0023E+00	1.0004E+00	1.0011E+00	1.C040E+00	1.0060E+00	1.0049E+00
NORMALIZED CF	E-PLANE	11111111	9.95216-01	9. 3055-01	1.0041E+00	1.0075E+00		9.9529E-01		9.9077E-01	1.00295+60	1.0163E+00	1.01925+00	1.006GE+00	9.86145-01	9.74325-01	9.8326E-01	1.0082E+00	1.0283E+00	1.0242E+00	9.9730E-01	9.7237E-01	9.7515E-01		1.03115+00	1.0228E+00	9.84985-01	9.58798-01	9.7818E-01	+	1.0461E+00	1.0088E+00	
	ANGLE	1 - 1 - 1	0.0	5.0	4.0	0.9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

SCH SECTION (September 1)

(4) 2000年 日本本本本の日本の名の名を大き、文本の名の名は、ことのののとのは、表の句の名の名は、表示の名の文字を表現している。

KA=22.2

24.00.00.00.00.00.00.00.00.00.00.00.00.00	4 1	Z.	H-PLANE 9.6421E-01 9.6421E-01 9.6529E-01 9.7588E-01 9.9758E-01 1.0037E-00 1.0037E+00 1.0035E+00 1.0035E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0031E+00
RE-PLANE	MORMALIZE 62.0 9.429E-0 64.0 9.429E-0 66.0 1.0590E-0 66.0 1.0590E-0 72.0 9.2337E-0 74.0 9.562E-0 74.0 9.562E-0 74.0 9.7285E-0 80.0 9.7285E-0 90.0 9.7285E-0 90.0 9.7285E-0 90.0 9.7285E-0 1.0100E-0 90.0 9.7285E-0 90.0 1.1483E-0 1.15.0 1.1522E-0 1.16.0 9.1531E-0 1.16.0 9.1531E-0 1.18.0 6.217E-0	ANGLE STATE	PPLANE H-PLANE
	ANGLE CO. 0.010	Z.	9.6721DN 9.6721E-01 9.6721E-01 9.6721E-01 9.7588E-01 9.9758E-01 1.0037E+00 1.0037E+00 1.0037E+00 1.0035E+00 1.0035E+00 1.0035E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0025E+00 1.0031E+

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=22.4

CROSS SECTION H-PLANE	1.1056E+00	1.1223E+00	1.1384E+00	1.1567E+00	1.1713E+00	1.1908E+00	1.2366E+00	1.2831E+00	1.2858E+00	1.3046E+00	1.4259E+00	1.5363E+00	1.4897E+00	1.5089E+00	1.8492E+00	2.1051E+00	1.8709E+00	1.9443E+00	3.0504E+00	3.6950E+00	2.6828E+00	3.3031E+00	8.3863E+00	1.1119E+01	5.2737E+00	1.3979E+01	8.9175E+01	2.5211E+02	4.3516E+02	5.1679E+02	
NORMALIZED (E-PLANE	1.3156E+00	1.2072E+00	5.9844E-01	6.3668E-01	1.3545E+00	1.4034E+00	5.7703E-01	4.4139E-01	1.4117E+00	1.6839E+00	6.1008E-01	2.3057E-01	1.5267E+00	2.1860E+00	8.38305-01	5.1501E-02	1.7618E+00	3.2927E+00	1.9223E+00	2.1335E-01	2.2502E+00	6.88735+00	8.4593E+00	4.1544E+00	3.1561E+00	3.2778E+01	1.2655E+02	2.8552E+02	4.4730E+02	5.1679E+02	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CROSS SECTION H-PLANE	1.0059E+00	1.0032E+00	1.0021E+00	1.0050E+00	1.0087E+00	1.0087E+00	1.0055£+00	1.004BE+00	1.0092E+00	1.0137E+00	1.0127E+00	1.0089E+00	1.0104E+00	1.0175E+00	1.0214E+00	1.0180E+00	1.0158E+00	1.0226E+00	1.0316E+00	1.0317E+00	1.0277E+00	1.0328E+00	1.0454E+00	1,0511E+00	1.0485E+00	1.0527E+00	1.0677E+00	1.0792E+00	1.0824E+00	1.0895E+00	
NORMALIZED E-PLANE	9.6329E-01	9.4256E-01	9.9712E-01	1.0587E+00	1,0374E+00	9.5240E-01	9.2333E-01	1.0031E+00	1.0825E+00	1.0341E+00	9.1550E-01	9.0868E-01	1.0410E+00	1.1104E+00	9.8734E-01	8.5177E-01	9.3598E-01	1.1244E+00	1.0956E+00	8.6450E-01	8.1692E-01	1,0673E+00	1,1959E+00	9.38895-01	7.1681E-01	9.5609E-01	1.2683E+00	1,0561E+00	6.4505E-01	8.0928E-01	
ANGLE	62.0	64.0	0.99	63.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	0.98	88.0	90.0	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION E H-PLANE	9.69746-01	9.7176E-01	9.7747E-01	9.8568E-01	9.9452E-01	1.0017E+00	1.0056E+00	1.0055E+00	1.0026E+00	9.9920E-01	9.97518-01	9.9838E-01	1.000BE+00	1.0029E+00	1.0029E+00	1.0012E+00	9.9952E-01	9.9955E-01	1.0013E+CO	1.0031E+00	1.0031E+00	1.0012E+00	9.9973E-01	1.0004E+00	1.0025E+00	1.0045E+00	1.0036E+00	1.0014E+00	1.00095+00	1.0033E+00	1.0060E+00
NORMALIZED (E-PLANE	9.69745-01	9.7607E-01	9.9283E-01	1.0134E+00	1.0283E+00	1.0292E+00	1.0148E+00	9.9247E-01	9.75695-01	9.7571E-01	9.93316-01	1.0161E+00	1.0262E+00	1.0148E+00	9.9116E-01	9.7655E-01	9.8539E-01	1.0100E+00	1,0253E+00		9.8361E-01	9.6795E-01	9.87025-01		1.0368E+00	1.0069E+00	9.6531E-01	9.6296E-01	1.0076E+00	1.04575+00	1.0241E+00
ANGLE	0.0	5.0	4.0	0.9	8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	3210	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.c	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=22.6

CROSS SECTION	H-PLANE	1.10335+00	1.1204E+00	1.1369E+00	1.1562E+00	1.1719E+00	1.1877£+00	1.2293E+00	1.2828E+00	1.2930E+00	1.2985E+00	1.4069E+00	1.5387E+00	1.5104E+00	1.4929E+00	1.8062E+00	2.1203E+00	1.9196E+00	1.8945E+00	2.9553E+00	3.7582E+00	2.7933E+00	3.1285E+00	8.1411E+00	1.1379E+01	5.5921E+00	1.3039E+01	8.7507E+01	2.5317E+02	4.4151E+02	5.2594E+02	
٥	E-PLANE	1 20935+00	1.32:5E+00	7.2826E-01	5.2823E-01	1.2017E+00	1.5037E+00	7.49.0E-01	3.4708E-01	1.2181E+00	1,7719E+00	8.1840E-01	1.53798-01	1.29:2E+00	2.2419E+00	1.0768E+00	7.4696E-03	1.4981E+00	3.2835E+00	2.1827E+00	2.6213E-01	1.9409E+00	6.6554E+00	8.6904E+00	4.5622E+00	2.8256E+00	3.1197E+01	1.2512E+02	2.8732E+02	4.5402E+02	5.2594E+02	
	ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CROSS SECTION	H-PLANE	1 00656+00	1.0051E+00	1.0025E+00	1.0031E+00	1.0071E+00	1.0096E+00	1.0077E+00	1.0048E+00	1.0068E+30	1.0123E+00	1.0143E+00	1.0109E+00	1.0092E+00	1.0146E+00	1.0212E+00	1.0206E+00	1.0164E+00	1.0196E+00	1.0295E+00	1.0336E+00	1.0296E+00	1.0306E+00	1.0422E+00	1.0517E+09	1.0507E+00	1.0515E+00	1.0643E+00	1.0785E+00	1.0836E+00	1.0889E+00	
۵	E-PLANE	1 0026F±00	9.45955-01	9.5723E-01	1.0298E+00	1.0638€+00	1.0012E+00	9.2359E-01	9.4973E-01	1.0528E+00	1.0770E+00	9.6928E-01	8.8690E-01	9.71095-01	1,1029E+00	1.0607E+00	8.89225-01	B.6943E-01	1.0590£+00	1.1464E+00	9.5325E-01	7.8890E-01	9.6210E-01	1.1983E+00	1.0553E+00	7.4276E-01	8.3497E-01	1.214BE+00	1,1782E+00	7.2574E-01	6.89945-01	
	ANGLE	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	90.08	82.0	84.0	96.0	0.88	0.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION	H-PLANE	1 00525+00	1.00416+00	1,0013E+00	9.9859E-01	9.9754E-01	9.9865E-01	1.0010E+00	1.0029E+00	1.0030E+00	1.0013E+00	9.9913E-01	9.98218-01	9.9933E-01	1.0016E+00	1.0032E+00	1.0028E+00	1.0008E+00	9.9922E-01	9.9959E-01	1.0016E+00	1.0033E+00	1.0029E+00	1.0010E+00	9.9932E-01	1.0012E+00	1.0037E+00	1.0047E+00	1.0030E+00	1.0010E+00	1.0015E+00	1.0045E+00
G	E-PLANE		1.0024F+00	9.9675E-01	9.9457E-01	9.9915E-01	1.0075E 100	1.C124E+00	1.0077E+00	9.9491E-01	9.8352E-01	9.8460E-01	1.0003E+00	1.0191E+00	1.02435+00	1.0CBGE+00	9.8368E-01	9.7220E-01	9.86725-01	1.0150E+00		1.0113E+00	9.7997E-01	9.69835-01	9.9591E-01		1.0313E+00	9.9122E-01		9.7249E-01	1.0252E+00	1.0468E+00
1	ANGLE		9 0	4	0.9	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

MA=22.8

ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED C E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
			!	3	***			
o. 0	1.0354E+00	1.0354E+00	62.0	1.0385E+00	1.0058E+00	122.0	1.06;4E+00	1,1013E+00
9.0	1.02595+00	1.0321E+00	64.0	9.7662E-01	1.0065E+00	124.0	1.3824E+00	1.1184E+00
4.0	1.0034E+00	1.0235E+00	0.99	9.3888E-01	1.0041E+00	126.0	8.8839E-01	1.1352E+00
9	9.81226-01	1.0125E+00	0.89	9.8493E-01	1.0025E+00	128.0	4.7643E-01	1.1552E+00
8.0	9.722E-01	1.0028E+00	70.0	1,0566E+00	1.0049E+00	130.0	1.0236E+00	1.1727E+00
10.0	9.80916-01	9.97135-01	72.0	1.0461E+00	1.0090E+00	132.0	1.5453E+00	1.1859E+00
12.0	1.0006E+00	9.9614E-01	74.0	9.5661E-01	1.0095E+00	134.0	9.4182E-01	1.2220E+00
14.0	1.0173E+00	9.9846E-01	76.0	9.1770E-01	1.0063E+00	136.0	3.11ABE-01	1.2801E+00
16.0	1.0191E+00	1.0015E+00	78.0	9.9893E-01	1.0054E+00	138.0	1.0081E+00	1.3003E+00
18.0	1.0055E+00	1.0029E+00	80.0	1.0845E+00	1.0039E+00	140.0	1.7966E+00	1.2961E+00
20.0	9.8859E-01	1.0021E+00	82.0	1,0317E+00	1.0146E+00	142.0	1.0391E+00	1.3875E+00
22.0	9.8382E-01	1.002E+00	84.0	9.0697E-01	1.0133E+00	144.0	1.33235-01	1.5359E+00
24.0	9.95966-01	9.9902E-01	86.0	9,1095E-01	1.0096E+00	146.0	1.057.1E+00	1.5321E+00
26.0	1.0138E+00	9.9973E-01	88.0	1,0557E+00	1.0119E+00	148.0	2.2451E+00	1.4842E+00
28.0	1.0191E+00	1.0016E+00	0.06	1,1084E+00	1.0194E+00	150.0	1.3195E+00	1.7612E+00
30.0	1.0042E+00	1.0028E+00	92.0	9,5958E-01	1.0224E+00	152.0	1.2043E-02	2.1260E+00
32.0	9.8183E-01	1.0022E+00	94.0	B,4262E-01	1.0184E+00	154.0	1.2330E+00	1.9722E+00
34.0	9.7516E-01	1.0004E+00	0.96	9.7302E-01	1.0178E+00	156.0	3.2315E+00	1.8574£+00
36.0	9.9447E-01	9.9919E-01	98.0	1,1490E+00	1.0264E+00	158.0	2.4350E+00	2.8536E+00
38.0	1.0227E+00	1.0001E+00	100.0	1,0491E+00	1.0341E+00	160.0	3.4735E-01	3.8057E+00
40.0	1.02958+00	1.0023E+00	102.0	8,1373E-01	1.0322E+00	162.0	1.6500E+00	2.9154E+00
42.0	1.0044E+00	1.0036E+00	104.0	8.63R9E-01	1.0299E+00	164.0	6.3971E+00	2.9747E+00
44.0	9.7243E-01	1.0027E+00	106.0	1,1471E+00	1.0387€+00	166.0	8.89105+00	7.8784E+00
46.0	9.7071E-01	1.0007E+00	108.0	1,1516E+00	1.0508E+00	168.0	4.9849E+00	1.1614E+01
48.0	1.0044E+00	1.0001E+00	110.0	8.1978E-01	1.0529E+00	170.0	2.5493E+00	5.9401E+00
50.0	1.0349E+00	1.0020E+00	112.0	7,4508E-01	1.0515E+00	172.0	2.9638E+01	1.2145E+01
52.0	1.0217E+00	1.0043E+00	114.0	1.1142E+00	1.0611E+00	174.0	1.2362E+02	8.5806E+01
54.0	9.7594E-01	1.0044E+00	116.0	1.2595E+00	1.0768E+00	176.0	2.8905E+02	2.5415E+02
56.0	9.5457E-01	1.0022E+00	118.0	8.4798E-01	1.0845E+00	178.0	4.6076E+02	4.4788E+02
58.0	9.9061E-01	1.0009E+00	120.0	6.1840E-01	1.0889E+00	180.0	5.3516E+02	5.3516E+02
60.0	1.0423E+00	1.0026E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=23.0

ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED C	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		
0.0	1.0311E+00	1.031'E+00	62.0	1.0510E+00	1.0041E+00	122.0	9.1109E-01	1.0998E+00
7.0	1.0242E+00	1.0289E+00	64.0	1.0172E+00	1.0068E+00	124.0	1.3820E+00	1.1164E+00
4.0	1.0067E+00	1.0227E+00	66.0	9.5074E-01	1.0060E+00	126.0	1.0558E+00	1.1333E+00
0.9	9.8652E-01	1.0142E+00	0.89	9.4696E-01	1.0032E+00	128.0	4.8710E-01	1.1537E+00
9.0	9.73295-01	1.00546+00	20.0	1.0202E+00	1.0033E+00	130.0	8.414CE-01	1.1734E+00
0.0	9.7437E-01	9.9865E-01	72.0	1.0663E+00	1.0072E+00	132.0	1.5245E+00	1.1854E+00
12.0	9.9013E-01	9.9556E-01	74.0	1.0069E+00	1.0102E+00	134.0	1.1356E+00	1.2151E+00
14.0	1.0121E+00	9.9632E-01	16.0	9.21215-01	1.0083E+00	136.0	3.3829E-01	1.2753E+00
16.0	1.0258E+00	9.9948E-01	78.0	9.4494E-01	1.0054E+00	138.0	7.9953E-01	1.3069E+00
18.0	1.0212E+00	1.0026E+00	80.0	1.0547E+00	1.0075E+00	140.0	1.761BE+00	1.2973E+00
20.0	1.0011E+00	1.0037E+00	82.0	1.0778E+00	1.0132E+00	142.0	1.2569E+00	1.3690E+00
22.0	9.8096E-01	1.0024E+00	84.0	9.6028E-01	1.0150E+00	144.0	1.6947E-01	1.5280E+00
24.0	9.7729E-01	1.0000E+00	86.0	8.8286E-01	1.0114E+00	146.0	8.2320E-01	1.5533E+00
26.0	9.9366E-01	9.9871E-01	88.0	9.86555-01	1.0103E+00	148.0	2.1958E+00	1.4828E+00
28.0	1.0156E+00	9.9949E-01	0.06	1.1142E+00	1.0167E+00	150.0	1.555@E+00	1.7161E+00
30.0	1.0220E+00	1.0015E+00	92.0	1.0385E+00	1.0228E+00	152.0	6.4444E-02	2.1219E+00
32.0	1.0056E+00	1.0027E+00	94.0	8.6306E-01	1.0209E+00	154.0	9.7752E-01	2.0268E+00
34.0	9.8248E-01	1.0021E+00	0.96	8,93135-01	1.0176E+00	156.0	3.1385E+00	1.8336E+00
36.0	9.78085-01	1.0003E+00	0.86	1.1034E+00	1.0231E+00	158.0	2.6735E+00	2.7475E+00
38.0	9.9984E-01	9.9952E-01	100.0	1.1248E+00	1.0330E+00	160.0	4.6680E-01	3.8364E+00
40.0	1.0254E+00	1.0007E+00	102.0	8,83516-01	1.0346E+00	162.0	1.3812E+00	3.0466E+00
42.0	1.0242E+00	1.0028E+00	104.0	7.9758E-01	1.0307E+00	164.0	6.1154E+00	2.8430E+00
44.0	9.9312E-01	1.0036E+00	106.0	1.0559E+00	1.0356E+00	166.0	9.0595E+00	7.600BE+00
46.0	9.6559E-01	1.0022E+00	108.0	1.2057E+00	1.0487E+00	168.0	5.4194E+00	1.1820E+01
48.0	9.7629E-01	1.0003E+00	110.0	9.2993E-01	1.0546E+00	170.0	2.3269E+00	6.3151£+00
50.0	1.0167E+00	1.0005E+00	112.0	7.0467E-01	1.0527E+00	172.0	2.8106E+01	1.1299E+01
52.0	1.0331E+00	1.0028E+C0	114.0	9.8721E-01	1.0586E+00	174.0	1.2208E+02	8.4076E+01
54.0	1.0096E+00	1.0047E+00	116.0	1,2855E+00	1.0742E+00	176.0	2.9071E+02	2.5506E+02
56.0	9.6340E-01	1.0039E+00	118.0	9.8967E-01	1.0849E+00	178.0	4.6751E+02	4.5426E+02
58.0	9.6153E-01	1.0016E+00	120.0	6.0581E-01	1.0894E+00	180.0	5.4447E+02	5.4447E+02
0.09	1.0130E+00	1.0014E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=23.2

CROSS SECTION	H-PLANE	1.0987E+00	1.1145E+00	1.1313E+00	1.1517E+00	1.1738E+00	1.1860E+00	1.2092E+00	1.2686E+00	1.3121E+00	1.3016E+00	1.3524E+00	1.5153E+00	1.5726E+00	1.4885E+00	1.6727E+00	2.1080E+00	2.0811E+00	1.8231E+00	2.6395E+00	3.8499E+00	3.1843E+00	2.7344E+00	7.3109E+00	1.1996E+01	6.7145E+00	1.0500E+01	8.2319E+01	2.5591E+02	4.6064E+02	5.5385E+02	
٥	E-PLANE	7.6629E-01	1.3212E+00	1.2107E+00	5.5810E-01	6.7640E-01	1.4443E+00	1.3112E+00	4.2312E-01	6.0946E-01	1.6707E+00	1.4570E+00	2.5959E-01	6.0623E-01	2.0965E+00	1.7758E+00	1.6210E-01	7.3926E-01	3.00/37E+00	2.8929E+00	6.1770E-01	1.1376E+00	5.8130E+00	9.1946E+00	5.8623E+00	2.1575E+00	2.6600E+01	1.2048E+02	2.9231E+02	4.7428E+02	5.5385E+02	
•	ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE	1.0024E+00	1.0057E+00	1.0071E+00	1.0049E+00	1.0029E+00	1.0050E+00	1.0093E+00	1.0101E+00	1.0068E+00	1.0060E+00	1.0109E+00	1.0155E+00	1.0137E+00	1.0103E+00	1.0139E+00	1.0216E+00	1.0232E+00	1.0189E+00	1.0206E+00	1.0306E+00	1.0362E+00	1.0327E+00	1.0335E+00	1.0456E+00	1.0552E+00	1.0545E+00	1.0570E+00	1.0712E+00	1.0846E+00	1.0901E+00	
NORMALIZED C	E-PLANE	1.0340E+00	1.0461E+00	9.8635E-01	9.3531E-01	9.7368E-01	1.0534E+00	1.0514E+00	9.5803E-01	9.1410E-01	1.0008E+00	1.0892E+00	1.0251E+00	8.9629E-01	9.2058E-01	1.0768E+00	1,0991E+00	9.2302E-01	8,4357E-01	1,0240E+00	1,1593E+00	9.7865E-01	7,7967E-01	9,4762E-01	1,2058E+00	1,0485E+00	7.2153E-01	8.5950E-01	1,2524E+00	1.1257E+00	6.53518-01	
	ANGLE	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	90.0	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION	H-PLANE	9.9767E-01	9.9862E-01	1.0009E+00	1.0029E+00	1.0034E+00	1.0020E+00	9.9958E-01	9.9817E-01	9.98578-01	1.0006E+00	1.0026E+00	1.0030E+00	1.0015E+00	9.9944E-01	9.9854E-01	9.9987E-01	1.0020E+00	1.0030E+00	1.0021E+00	1.0002E+00	9.99705-01	1.0012E+00	1.0032E+00	1.0034E+00	1.0016E+00	1.0002E+00	1.0012E+00	1.0038E+00	1.0049E+00	1.0033E+00	1.0013E+00
۵	E-PLANE	7		1.0043E+00		1.0006E+00	9.9258E-01	9.8922E-01		1.0390E+00	1.0177E+00	1.0124E+00	9.9486E-01	9.7919E-01	9.8069E-01	1.0008E+00	1.0224E+00	1.0239E+00	1.0017E+00	9.7729E-01	9.7719E-01		1.0270E+00	1.01835+00	9.83875-01		9.8848E-01	1.0301 €+00	1.0357E+00	9.92325-01	9.5392E-01	9.75845-01
	ANGLE	0.0	5.0	4.0	0.9	9.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=23.4

NORMALIZED CROSS SECTION	H-PLANE		1.0981E+00	1.11286+00	1.1294E+00	1.1494E+00	1.1735E+00	1.1874E+00	1.2046E+00	1.2606E+00	1.3152E+00	1.3085E+00	1.3387E+00	1.4986E+00	1.5887E+00	1.5006E+00	1.6326E+00	2.0849E+00	2.1331E+00	1.8258E+00	2.5319E+00	3.8460E+00	3.3260E+00	2.6496E+00	7.0113E+00	1.2143E+01	7.1356E+00	9.7505E+00	8.0537E+01	2.5668E+02	4.6704E+02	5.6332E+02	
NORMALIZED (E-PLANE		6.5483E-01	1.209BE+00	1.3293E+00	6.79586-01	5.47576-01	1.3140E+00	1.4513E+00	5.5783E-01	4.5332E-01	1.5305E+00	1.6256E+00	3.9734E-01	4.1785E-01	1.9523E+00	1.969E+00	3.0081E-01	5.2526E-01	2.8399E+00	3.0881E+00	7.9680E-01	9.2193E-01	5.4930E+00	9.2952E+00	6.3106E+00	2.0401E+00	2.5125E+01	1.1883E+02	2.9382E+02	4.8107E+02	5.6332E+02	
	ANGLE	!!!!	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE	1 1 1 1 1 1 1 1	1.0015E+00	1.0038E+00	1.0069E+00	1.0066E+00	1.0038E+00	1.0035E+00	1.00756+00	1.0107E+00	1.0089E+00	1.0060E+00	1.0085E+00	1.0144E+00	1.0157E+00	1.0118€+00	1.0119E+00	1.0192E+00	1.0243E+00	1.0211E+00	1.0194E+00	1.0275E+00	1.0363E+00	1.0351E+00	1.0330E+00	1.0422E+00	1.0545E+00	1.0565E+00	1.0566E+00	1.0682E+00	1.0834€+00	1.0907E+00	
NORMALIZED CROSS SECTION	E-PLANE		9.9800E-01	1.0491E+00	1.0273E+00	9.5548E-01	9.4012E-01	1.0143E+00	1.0697E+00	1.0107E+00	9,1873E-01	9,4540E-01	1,061BE+00	1,0758E+00	9.4507E-01	8.8136E-01	1,0101E+00	1,1218E+00	1.0026E+00	8.3916E-01	9.3494E-01	1,1440E+00	1,0733E+00	8.1411E-01	8.4943E-01	1,1532E+00	1.1493E+00	7.9131E-01	7.5652E-01	1,1673E+00	1.2322E+00	7.5269E-01	
	ANGLE	1 1 1 1	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE		9.6832E-01	9.7146E-01	9.7973E-01	9.9014E-01	9.9913E-01	1.0041E+CO	1.0045E+00	1.0020E+00	9.9930E-01	9.9850E-01	9.9978E-01	1.0017E+00	1.0024E+00	1.0013E+00	9.9966E-01	9.9920E-01	1.0006E+00	1.0025E+00	1.0030E+00	1.0016E+00	9.9987E-01	9.9935E-01	1.0018E+00	1.0035E+00	1.0031E+00	1.0012E+00	1.0004E+00	1.0023E+00	1.0047E+00	1.0047E+00	1.0025E+00
NORMALIZED C	E-PLANE		9.6832E-01	9.7735E-01	9.99006-01	1.0200E+00	1.0273E+30	1,01696+00	9.9720E-01	9.8316E-01	9.84935-01	9.9984E-01	1.01415+00	1.0140E+00	9.99155-01	9.8405E-01	9.8556E-01	1.0047E+00	1.0225E+00	1.0184E+00	9.9297E-01	9.719BE-01	9.8032E-01	1.0118E+00	1.03CBE+00	1.0123E+00	9.7583E-01	9.6759E-01	1.0027E+00	1.0383E+00	1.0237E+00	9.71785-01	9.5216E-01
	ANGLE	1 1 1 1	0.0	9.0	4	9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	45.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

PROBLEM TO CONTRACT OF THE PROBLEM O

KA=23.6

##PLANE ##PLANE 9.7132E-01 9.735E-01 9.735E-01 9.8806E-01 1.0029E-00 1.0059E-00 1.0054E-00 1.0054E-00 1.0056E-00	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
ANG 65.00 66	H-PLANE H-PLAN
4 1	CROSS SECTION
#*PLANE #*PLANE 9.7132E-01 9.7352E-01 9.7352E-01 1.0029E-00 1.0029E+00 1.0039E+00	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
	MANALIZED MANALIZED F - P L A N E P - T 132 E - O 1 O 1

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=23.8

NORMALIZED CR(E-PLANE	D CROSS SECTION H-PLANE	ANGLE	۳ <u>۵</u>	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE
00275+00	1.0027E+00	62.0	9.4928E-01	1.0032E+00	122.0	5.9073E-01	1.0979E+00
.0005E+00	1.0018E+00	64.0	9.8774E-01	1.0017E+00	124.0	9.0663E-01	1.1101E+00
.9657E-01	9.9962E-01	0.99	1.0482E+00	1.0037E+00	126.0	1.4049E+00	1.1262E+00
9.9651E-01	9.9785E-01	68.0	1.0363E+00	1.0071E+00	128.0	1.00556+00	1.144E+00
.0022E+00	9.97775-01	70.0	9.5990E-01	1.0072E+00	130.0	4.5010E-01	1.1706E+00
.0094E+00	9.9948E-01	72.0	9.3547E-01	1.0044E+00	132.0	9.6464E-01	1.1910E+00
.0106E+00	1.0017E+00	74.0	1.0112E+00	1.0040E+00	134.0	1.5755E+00	1.2005E+00
.0024E+00	1.0029E+00	16.0	1.0718E+00	1.0080E+00	136.0	9.21875-01	1.242BE+00
9.8969E-01	1,0021E+00	78.0	1.0086E+00	1.0113E+00	138.0	2.8867E-01	1.3137E+00
9.8389E-01	1.0001E+00	80.0	9.1266E-01	1.0094E+00	140.0	1.1493E+00	1.3263E+00
9.9267E-01	9.9854E-01	82.0	9.4902E-01	1.0066E+00	142.0	1.8265E+00	1.3223E+00
.010E+00	9.9876E-01	84.0	1.0714E+00	1.0097E+00	144.0	7.7743E-01	1.4572£+00
.0221E+00	1.0006E+00	86.0	1.0678E+00	1.0157E+00	146.0	1.6391E-01	1.6071E+00
.0140E+00	1.0025E+00	88.0	9.2354E-01	1.0161E+00	148.0	1.5593E+00	1.5398E+00
9.9162E-01	1.0027E+00	90.06	8.8613E-01	1.0122E+00	150.0	2.2496E+00	1.5682E+00
E-01	1.0012E+00	92.0	1.0422E+00	1.0139E+00	152.0	6.7776E-01	2.0149E+00
9.8392E-01	9.9947E-01	94.0	1.1206E+00	1.0220E+00	154.0	1.9398E-01	2.226E+00
.0092E+00	9.9941E-01	96.0	9.5427E-01	1.0253E+00	156.0	2.4189E+00	1.8681E+00
.0250E+00	1.0011E+00	0.86	8.2884E-01	1.0213E+00	158.0	3.38976+00	2.3273E+00
.0124E+00	1.0027E+00	100.0	9.9795E-01	1.0222E+00	160.0	1.2243E+00	3.7864E+00
9.8395E-01	1.0025E+00	102.0	1.1671E+00	1.0323E+00	162.0	5.8338E-01	3.6105E+00
9.7393E-01	1.0008E+00	104.0	9.9014E-01	1.0387E+00	164.0	4.8140E+00	2.5523E+00
9.9752E-01	9.9990E-01	106.0	7.6976E-01	1.0356E+00	166.0	9.3913E+00	6.3941E+00
.0277E+00	1.0011E+00	108.0	9.5120E-01	1.0372E+00	168.0	7.2105E+00	1.2341E+01
.0242E+00	1.0033E+00	110.0	1.2186E+00	1.0499E+00	170.0	1.9567E+00	8.0317E+00
9.8618E-01	1.0038E+00	112.0	1.01975+00	1.0590E+00	172.0	2.2274E+01	8.4024E+00
9.6103E-01	1.0021E+00	114.0	6.9511E-01	1.0586E+00	174.0	1.1538E+02	7.6908E+01
9.8585E-01	1.0006E+00	116.0	9.1422E-01	1.0636E+00	176.0	2.9665E+02	2.5800E+02
.0317E+00	1.0017E+00	118.0	1.2918E+00	1.0790E+00	178.0	4.9469E+02	4.7986E+02
1.0340E+00	1.0044E+00	120.0	1.0308E+00	1.0911E+00	180.0	5.8249E+02	5.8249E+02
10-1	1.0052E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

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BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=24.0

ROSS SECTION	H-PLANE		1.09B1E+00	1.1092E+00	1.1248£+00	1.1420E+00	1.1681E+00	1.1923E+00	1.2009E+00	1.2345E+00	1.3090E+00	1.3353E+00	1.3203E+00	1.4349E+00	1.6081E+00	1.5642E+00	1.5462E+00	1.9706E+00	2.2568E+00	1.9056E+00	2.2346E+00	3.7321E+00	3.7484E+00	2.5397E+00	6.0819E+00	1.2391E+01	8.5011E+00	7.8052E+00	7.5066E+01	2.5854E+02	4.8628E+02	5.9220E+02	
NORMALIZED CROSS SECTION	E-PLANE	1 1 1 1 1 1 1 1 1	6.4644E-01	7.595.E-01	1.3531E+00	1.1683E+00	4.9144E-01	7.8400E-01	1.5485E+00	1.11747+00	2.9262E-01	9.3758E-01	1.8459E+00	9.95756-01	1.11145-01	1.329E+00	2.3239E+00	9.0131E-01	8.61346-02	2.1762E + 00	3.4897E+00	1.4640E+00	4.6402E-01	4.4623E+00	9.3855E+00	7.6557E+00	1.9882E+00	2.0904E+01	1.1359E+02	2.9795E+02	5.0152E+02	5.9220E+02	
	ANGLE	1111	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE		1.0048E+00	1.0024E+00	1.002 JE+00	1.0036E+00	1.0079E+00	1.0062E+00	1.00385+30	1.0059E+U0	1.0105E+00	1.01116+00	1.0077E+09	1.0079E+00	1.01385+00	1.0173E+00	1.0141E+00	1.0126E+00	1.0193E+00	1.0258E+00	1.0236E+00	1.0213E+00	1.0293E+00	1.0387E+00	1.0379E+00	1.0364E+00	1.0467E+00	1.0587E+00	1.0603E+00	1.0626E+00	1.0763E+00	1.0904E+00	
NORMALIZED CROSS SECTION	E-PLANE		9.6160E-01	9,5610E-01	1.0178E+00	1.0553E+00	1.0019E+00	9.3278E-01	9.6297E-01	1.0544E+00	1.0547E+00	9.4828E01	9.10285-01	1.0202E+00	1.0960E+00	9.88295-01	8.7174E-01	9.6811E-01	1.1217E+00	1.0367E+00	8.4167E-01	9.0939E-01	1.1420E+00	1.0851E+00	8.0601E-01	8.4950E-01	1.1732E+00	1.1295E+00	7.4710E-01	7.9416E-01	1,2358E+00	1,1630E+00	
	ANGLE	1 1 1	62.0	64.0	0.99	63.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE		1.03125+00	1,02905+00	1,01976+00	1.0095E+00	1.0010E+00	9.963EE-01	9.9707E-01	9.9972E-01	1.0021E+0G	1.0024E+00	1.0C10E+00	9.99.105-01	9.99346-01	1.000 ×E+00	1.0023E+90	1.0022E+00	1.00075+00	9.9934E-01	9.9987E-01	1.0017E+00	1.0030E+00	1.0023E+00	1.0005E+00	1.0001E+00	1.0018E+00	1.0037E+00	1.0034E+00	1.0014E+00	1.0007E+00	1.0029E+00	1.0053E+00
NORMALIZED C	E-PLA*:E		1.03126+00	+	+			9.87.17101	+	+		9.97195-01	Ι.			+	1.00905+00	9.88598-01	9.7.635-01	9.91165-01		+	_	ŧ			1.030RE+00	1.0140E+00	9.7320E-01		1.0051E+00	1.04226+00	1.0185E+00
	ANGLE		0.0	5.0	4.0	9 .0	9.0	10.0	12.0	14.0	16.0	19.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	45.0	44.0	46.0	48.0	20.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA:24.2

DSS SECTION H-PLANE	1.0983E+00	1.1085E+00	1.1237E+00	1.1399E+00	1.1650E+00	1.1929E+00	1.2025E+00	1.2274E+00	1.3019E+00	1.3433E+00	1.3223E+00	1.4130E+00	1.6034E+00	1.5898E+00	1.5318E+00	1.9221E+00	2.2822E+00	1.9520E+00	2.1508E+00	3.6629E+00	3.8800£+00	2.5505E+00	5.7711E+00	1.2409E+01	8.9810£+00	7.2598E+00	7.3208E+01	2.5902E+02	4.9271E+02	6.0198E+02	
NORMALIZED CROSS SECTION F-PLANE H-PLANE	7.5115E-01	6.4446E-01	1.2495E+00	1.3034E+00	5.8777E-01	6.2550E-01	1.46-16E+00	1.2991E+00	3.5434E-01	7.3298E-01	1.8089E+00	1.2150E+00	1.1180E-01	1.0931E+00	2.3500E+00	1.1370E+00	2.1013E-02	1.9204E+00	3.5527E+00	1.7149E+00	3.7945E-01	4,107; £+00	9.3484E+00	8.0938E+00	2.0665E+00	1.9572E+01	1.1176E+02	2.9917E+02	5.0837E+02	6.0198E+02	
a 19N V	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ADSS SECTION	1.0056E+00	1.0039E+00	1.0020E+00	1.0037E+00	1.0073E+00	1.0077E+00	1.0049E+00	1.0044E+00	1.0087E+0G	1.0119E+00	1.0096E+00	1.0073E+00	1.0113E+00	1.0172E+00	1.0164E+00	1.0128E+00	1.0166E+00	1.0249E+00	1.0259E+00	1.0219E+00	1.0263E+00	1.0373E+00	1.0400E+00	1.0369E+00	1.0437E+00	1.0573E+00	1.0619E+00	1.0625E+00	1.0737E+00	1.0892E+00	
NORMALIZED CROSS SECTION F-PLANE H-PLANE	9.9306E-01	9.4713E-01	9.7772E-01	1.0449E+00	1.0406E+00	9.6060E-01	9.3151E-01	1.0118E+00	1.0745E+00	1.0026E+00	9.0622E-01	9.5981E-01	1.0849E+00	1.0528E+00	8.9885E-01	9.0267E-01	1.0801E+00	1.1022E+00	8.9671E-01	8.4367E-01	1.0745E+00	1,1517E+00	8.8425E-01	7.7959E-01	1.0852E+00	1.2052E+00	8.4312E-01	7.0916E-01	1.1339E+00	1.2610E+00	
ANGLE	62.0	64.0	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	68.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
DRMALIZED CROSS SECTION F-DIANE M-DIANE	1.0293E+00	1.0270E+00	1.0205E+00	1.0118E+00	1.00346+00	9.9759E-01	9.95806-01	9.9757E-01	1.0008E+C0	1.0031E+00	1.0029E+00	1.0009E+00	9.9911E-01	9.9909E-01	1.0007E+00	1.0022E+00	1.0021E+00	1.0000E+00	9.99576-01	1.0004E+00	1.0023E+00	1.0031E+00	1.0018E+00	1.0002E+00	1.0005E+00	1.0026E+00	1.0040E+00	1.0028E+00	1.0010E+00	1.0015E+00	1.0042E+00
NORMALIZED CF	1.0293E+00	1.0221E+00	1.0040E+00	9.8451E-01	9.7409E-01	9.7926E-01	9.9758E-01	1.0172E+00	1.0237E+00	1.0116E+00	9.90665-01	9.7882E-01	9.8700E-01	1.0076E+00	1.0199E+00	1.01045+00	9.88585-01	9.7980E-01	9.9629E-01	1.0205E+00	1.0219E+00	9.9463E-01	9.6998E-01	9.8111E-01	1.0177E+00	1.0323E+00	1.00148+00	9.6407E-01	9.7529E-01	1.0249E+00	1.0412E+00
H GNA	0.0	2.0	0.4	0. 9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	0.44	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=24.4

ANGLE	NORMALIZED (E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED C E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED (E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
!		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 .		101111111111111111111111111111111111111
0.0	9.9978E-01	9.9978E-01	62.0	1.0265E+00	1.0053E+00	122.0	8.8/83E-01	1.098ZE+00
2.0	1.00156+00	1.0005E+C0	64.0	9.6552E-01	1.0053E+00	124.0	5.7763E-01	1.1079E+00
0.4	1.0042E+00	1,0022E+C0	0.99	9.4924E-01	1,0029E+00	126.0	1.1087E+00	1.1227E+00
9	1.00355+00	1.0033E+00	0.89	1.0113E+00	1.0025E+00	128.0	1.3941E+00	1.1382E+00
ď	9.97635-01	1.0029E+00	70.0	1.0576E+00	1.0057E+00	130.0	7.2705E-01	1.1616E+00
10.0	9.9110E-01	1.0011E+00	72.0	1.0051E+00	1.0083E+00	132.0	5.0586E-01	1.1925E+00
12.0	9.9146E-01	9.9896E-01	74.0	9.3070E-01	1.0066E+00	134.0	1.33275+00	1.2051E+00
0.4	1.0011E+00	9.9822E-01	16.0	9.6322E-01	1.3042E+00	136.0	1.4476E+00	1.2219E+00
16.0	1.0130E+00	9.9939E-01	78.0	1.0593E+00	1.0066E+00	138.0	4.6796E-01	1.2929E+00
18.0	1.0154E+00	1,0015E+00	80.0	1.0523E+00	1.0114E+00	140.0	5.5067E-01	1.3493E+00
20.0	1.0035E+00	1,0027E+00	82.0	9.3737E-01	1.0115E+00	142.0	1,7183E+00	1.327BE+00
22.0	9.8618E-01	1.0021E+DD	84.0	9.1352E-01	1.0081E+00	144.0	1.4216E+00	1.3930E+00
24.0	9.799E-01	1.0002E+00	86.0	1.0393E+00	1.0092E+00	146.0	1.6517E-01	1.5931E+00
26.0	9.9332E-01	9.9882E-01	88.0	1.0938E+00	1.0156E+00	148.0	8.5906E-01	1.6151E+00
28.0	1,0152E+00	9.99365-01	90.06	9.5715E-01	1.0180E+00	150.0	2.3268E+00	1.5254E+00
30.0	1.0232E+00	1.0012E+00	92.0	8.67535-01	1.0142E+00	152.0	1.3760E+00	1.8712E+00
32.0	1.0072E+00	1.0026E+00	94.0	1.0099E+00	1.0146E+00	154.0	7.92586-05	2.2979E+00
34.0	9.8302E-01	1.0021E+00	96.0	1.1312E+00	1.0227E+00	156.0	1,6580E+00	2.0057E+00
36.0	9.78'4E-01	1,0004E+00	98.0	9.7714E-01	1.0273E+00	158.0	3.57716+00	2.0776E+00
38.0	9.9977E-01	9.99678-01	100.0	8.1909E-01	1.0236E+00	160.0	1.9720E+00	3.5802E+00
40.0	1.0227E+00	1.000BE+00	102.0	9.83976-01	1.0243E+00	102.0	3,3016E-01	4.0031E+00
42.0	1.0167E+00	1.0026E+00	104.0	1.1737E+00	1.0348E+00	164.0	3,75195+00	2.5839E+00
44.0	9.80015-01	1.0028E+00	106.0	9.8480E-01	1.0413E+00	166.0	9.2715E+00	5.4642E+00
46.0	9.69635-01	1,0012E+00	108.0	7.5738E-01	1.0384E+00	168.0	8.5218E+00	1,2395E+01
48.0	9.93425-01	1,0001E+00	110.0	9.7490E-01	1.0414E+00	170.0	2,189BE+00	9.4685E+00
50.0	1.0292E+00	1,0012E+00	112.0	1.2316E+00	1.0549E+00	172.0	1.8281E+01	6.7667E+00
52.0	1.02705+00	1.0035E+00	114.0	9.6352E-01	1.0630E+00	174.0	1.0988E+02	7.1337E+01
54.0	9.8451E-01	1.0040E+00	116.0	6.7464E-01	1.0632E+00	176.0	3.0033E+02	2.5942E+02
56.0	9.5963E-01	1.0022E+00	118.0	1.0046E+00	1.0715E+00	178.0	5.1522E+02	4.9914E+02
58.0	9.9251E-01	1.0010E+00	120.0	1.3091E+00	1.CB74E+00	180.0	6.1185E+02	8.1185E+02
0.09	1.0392E+00	1.0026E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

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KA=24.6

2.0 9.7201E-01 9.7201E-01 0.005E-00 1.0014E-00 9.8309E-01 0.014E-00 9.8309E-01 0.014E-00 9.8309E-01 0.014E-00 9.8309E-01 0.016E-00 1.0105E-00 1.0105E-00 1.0005E+00 1	9.7201E-01 9.7201E-01 9.7201E-01 9.9278E-01 1.0005E-00 1.0003E-00 1.0008E-00 9.9885E-01	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 044 'E+00 9 4686E-01 9 7190E-01 1 0448E+00 9 5977E-01 9 2998E-01 1 0174E+00 9 9 9 9 7 7 E-01 9 9 9 9 7 7 E-00	1.0040E+00 1.0059E+00 1.0059E+00 1.0039E+00 1.0037E+00	124.0	1.034RE+00	
9 .7201E-01 9 .8084E-01 1 .00197E+00 1 .0193E+00 1 .0103E+00 1 .0103E+00 1 .0105E-01 1 .0067E-01 1 .0067E-00 1 .0067E-00 1 .0067E-00 1 .0067E-00 1 .0067E-00 1 .0067E-00 1 .0069E-01 1 .0169E+00 1 .01	7.201E-01 7.7510E-01 8.8309E-01 9.9278E-01 0.0055E+00 0.0034E+00 0.0034E+00 0.008E+00 0.9895E-01 9.9905E-01	662.0 664.0 664.0 664.0 720.0 747.0 747.0 880.0 880.0	1.044'E+00 9.4586E-01 9.7190E-01 1.0448E+00 1.0445E+00 1.045E-01 9.299E-01 1.0774E+00 9.9037E-01	1.0040E+00 1.0059E+00 1.0024E+00 1.0039E+00 1.0037E+00	122.0 124.0 126.0 130.0	1.034RE+00	1 00705+00
9.8084E-01 1.0014E+00 1.0232E+00 1.0105E+00 1.0105E+00 1.0105E+00 1.0105E+00 1.0104E+00 1.0104E+00 1.0106E+00 1.0106E+00 1.0109E+00 1.0190E+00	7510E-01 3.8309E-01 0.0005E+00 0.0040E+00 0.0040E+00 0.0040E+00 0.008E+00 0.9985E-01 0.9090E-01	64.0 686.0 686.0 720.0 72.0 74.0 76.0 88.0 89.0	1,0011E+00 9,4686E-01 1,0448E+00 1,0445E+00 9,5977E-01 1,077E+00 1,077E+00 9,9037E-01	1.0059E+00 1.004E+00 1.0024E+00 1.0039E+00 1.0077E+00 1.0087E+00	124.0 126.0 128.0	5 5707E-01	1.09/36100
1.00146+00 1.01976+00 1.01926+00 1.01056+00 1.01056+00 1.01056+00 1.00677+00 1.00677+00 1.00677+00 1.00677+00 1.00678+00 1.01096+00 1.01996+00		66.0 66.0 70.0 72.0 74.0 76.0 88.0 88.0	9.4686E-01 9.7190E-01 1.0445E+00 9.5977E-01 9.2998E-01 1.074E+00 9.9037E-01	1.0044E+00 1.0024E+00 1.0039E+00 1.0077E+00 1.0082E+00	126.0 128.0		1.1075E+00
1.0197 E+00 1.023E+00 1.0105E+00 1.0105E+00 9.9150E-01 1.0067 E+00 1.0169E+00	0,9278E-01 0005E+00 0005E+00 0034E+00 0038E+00 9985E-01 0007E+00	68.0 72.0 74.0 76.0 76.0 88.0 88.0	9.7190E-01 1.0448E+00 9.5977E-01 9.2998E-01 1.0174E+00 9.9037E-01	1.0024E+00 1.0039E+00 1.0077E+00 1.0082E+00	128.0	9.50156-01	1.1219E+00
1.0232E+00 9.9229E-00 9.9296E-00 9.9150E-01 1.0067E+00 1.0162E+00	0005E+00 0034E+00 0034E+00 0098E+00 9985E-01	70.0 72.0 74.0 76.0 88.0 88.0	1.0448E+00 1.0445E+00 9.5977E-01 9.299E-01 1.0174E+00 1.0767E+00	1.0039E+00 1.0077E+00 1.0082E+00	130.0	1.4293E+00	1.1370E+00
1.0105E+00 9.925E=01 9.9126=01 1.0067F+00 1.0060E+00 1.0060E+00 1.0060E+00 1.0169E+00 1.	0040E+00 0034E+00 0008E+00 9095E-01 9007E+00	72.0 74.0 76.0 78.0 80.0 84.0	1.0445E+00 9.5977E-01 9.2998E-01 1.0174E+00 1.0767E+00	1.0077E+00 1.0082E+00		8.9235E-01	1.1582E+00
9.9250E-01 9.9150E-01 1.0067E+00 1.0167E+00 1.0160E+00 1.0169	1.0034E+00 1.0008E+00 9.9885E-01 9.9905E-01	74.0 76.0 78.0 80.0 82.0	9.5977E-01 9.2998E-01 1.0174E+00 1.0767E+00	1.0082E+00	132.0	4.3741E-01	1.1910E+00
9.84125=01 1.0042E=01 1.0042E+00 1.006E+00 1.006E+00 1.006E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00	1.0008E+00 9.9885E-01 9.9905E-01	76.0 78.0 80.0 82.0	9.2998E-01 1.0174E+00 1.0767E+00 9.9037E-01	1.0053E+00	134.0	1.1663E+00	1.2080E+00
9.9150E-01 1.0067F+00 1.0060E+00 9.9020E-01 9.9800E-01 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0092E-01	9.9985E-01 9.9905E-01	78.0 80.0 82.0 84.0	1.0174E+00 1.0767E+00 9.9037E-01		136.0	1.5524E+00	1.2183E+00
1.0067E+00 1.0162E+00 1.0160E+00 1.0160E+01 1.0169E+00 1.0169E+00 1.0169E+00 1.0169E+00 1.0169E+00 1.0062E+00 1.0082E+00 1.0082E+00 1.0082E+00 1.0082E+00 1.0082E+00	9.9905E-01 1.0007E+00	80.0 82.0 84.0	1.0767E+00 9.9037E-01	1.0051E+00	138.0	6.2334E-01	1.2827E+00
1.0142E+00 1.0060E+00 9.9020E+01 9.8479E+01 1.0162E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0190E+01 1.0092E+01 1.0092E+01	1.0007E+00	82.0 84.0	9.9037E-01	1.0097E+00	140.0	4.0401E-01	1.3528E+00
1.0660E+00 9.9020E-01 9.9420E-01 1.0169E+00 1.0169E+00 1.0190E+00 1.0190E+00 1.0190E+00 1.0090E+00 1.0090E+00 1.0090E+00 1.0090E+00 1.0090E+00 1.0090E+00		84.0		1.0126E+00	142.0	1.580BE+00	1.3362E+00
9.9020E-01 9.8478E-01 9.9400E-01 1.0169E+00 1.0169E+00 1.0169E+00 1.0082E-01 1.0082E-01	1.0020E+00		8.9906E-01	1.0098E+00	144.0	1.6029E+00	1.3757E+00
9.8479E-01 9.9400E-01 1.0169E+00 1.0190E+00 9.9864E-01 9.7690E-01 1.0082E-00	1.0017E+00	86.0	9.7715E-01	1.0081£+00	146.0	2.6772E-01	1.5778E+00
9.9400E-01 1.0150E+00 1.0190E+00 9.9864E-01 9.7690E-01 1.0002E-00	1.0002E+00	88.0	1.0971E+00	1.0133E+00	148.0	6.4166E-01	1.6387E+00
1.0169E+00 1.0190E+00 9.9864E-01 9.7690E-01 1.0082E+00	9.9924E-01	90.06	1.0260E+00	1.0185E+00	150.0	2.2556E+00	1.5269E+00
1.0190E+00 9.9864E-01 9.7690E-01 1.0082E-00	.0000E+00	92.0	8.7408E-01	1.0164E+00	152.0	1.60425+00	1.819BE+00
9.9864E-01 9.7690E-01 9.8053E-01 1.0082E+00	0018E+00	94.0	9.3461E-01	1.0138E+00	154.0	2.3424E-02	2.3033E+00
9.7690E-01 9.8053E-01 1.0082E+00	1.0026E+00	0.96	1,1157E+00	1.0199E+00	156.0	1.3957E+00	2.0647E+00
9.8053E-01 9	1.0016E+00	98.0	1.0590E+00	1.0274E+00	158.0	3.5627E+00	2.0163E+00
1.0082E+30	9.9998E-01	100.0	8.4198E-01	1.0259£+00	160.0	2.2306E+00	3.4855E+00
	9.9975E-01	102.0	8.9518E-01	1.0235E+00	162.0	3.1617E-01	4.1156E+00
1.0270E+00	1.0014E+00	104.0	1,1463E+00	1.031EE+00	164.0	3.4003E+00	2.6389E+00
1.0110E+00	1.0030E+00	106.0	1.0827E+00	1.0414E+00	166.0	9.1627E+00	5.1639E+00
9.7836E-G1 1	1.0026E+00	108.0	7.8721E-01	1.0405E+00	168.0	8.9371E+00	1.2348E+01
0	1.000SE+00	110.0	8.6698E-01	1.0403E+00	170.0	2.3562E+00	9.9609E+00
1.0068E	1.0004E+00	112.0	1.2039E+00	1.0520E+00	172.0	1,7033E+01	6.3260E+00
52.0 1.0343E+00 1	1.0022E+00	114.0	1.0840E+00	1.0632E+00	174.0	1.0797E+02	6.9456E+01
.0 1.0127E+00 1	1.0041E+00	116.0	6.96186-01	1.0644E+00	176.0	3.0140E+02	2.5975E+02
9.6732E	1.0036E+00	118.0	8.7110E-01	1.0699E+00	178.0	5.2209E+02	5.0557E+02
9.6472E	1.0015E+00	120.0	1.2999E+00	1.0852E+00	180.0	6.2180E+02	6.2180E+02
1.0148	1.0014E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

STATE OF THE STATE OF STATE OF STATE BESTS INSTALL BELLEVI TO THE STATE OF STATE BESTS INSTALL BELLEVI

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=24.8

1,0601E+00 9,2648E+00 9,2648E+00 1,0648E+00 1,0458E+00 1,0458E+00 1,0528E+01 1,0548E+00
* *
.0489E+00 .0401E+00
.0485 +00
·
9.6634F 1.0664E 9.22468E 1.0626E 1.0626E 9.1044E 1.0648E 9.0492E
82.0 86.0 90.0 92.0 94.0 96.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=25.0

NORMALIZED CROSS SECTION E-PLANE H-PLANE	1 00505100	1 10675+00	1.1204F+00	1.13556+00	1.1523E+00	1.1850E+00	1.2131E+00	1.2172E+00	1.2617E+00	1.3506E+00	1.3581£+00	1.3527E+00	1.5353E+00	1.6750E+00	1.5514E+00	1.7223E+00	2.2829E+00	2.1906E+00	1.933E+00	3.2679€+00	4.3016E+00	2.8078E+00	4.5927E+00	1.2161E+01	1.0949E+01	5.6016E+00	6.5671E+01	2.6018E+02	5.1845E+02	6.4193E+02	
NORMALIZED (E-PLANE	1.28975+00	7 14215-01	6.65058-01	1.3259E+00	1.2220E+00	4.7477E-01	7.99068-01	1.5967E+00	1.0036E+00	2.5655E-01	1.20C1E+00	1.8432E+00	5.93496-01	2.8925E-01	1.9812E+00	2.0246E+00	1.9648E-01	8.9639E-01	3.420CE+00	2.7326E+00	3.91735-01	2.7221E+00	8.84845+00	9.7188E+00	2.8105E+00	1.4672E+01	1.0404E+02	3.03335+02	5,2585E+02	6.41936+02	
ANGLE	120	0 701	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	10.0	
ROSS SECTION H-PLANE	00199100	0014000	1 00625+00	1 .0049E+00	1.0028E+00	1.0043E+00	1.0082E+00	1.0085E+00	1,0055E+00	1.0059E+00	1.0109E+00	1.0131E+00	1.0099E+00	1.0093E+00	1.0156E+00	1.0196E+00	1.0162E+00	1.0157E+00	1.0238E+00	1.0292E+00	1.0258E+00	1.0269E+00	1.0379E+00	1.0440E+00	1.0414E+00	1.0466E+00	1.0606E+00	1.0671E+00	1.0689E+00	1.0806E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	00.000	4746	1 00756+00	9.4620E-01	9.6779E-01	1.0452E+00	1.0445E+00	9.5393E-01	9.2912E-01	1.0268E+00	1.0763£+00	9.7192E-01	8.9527E-01	1.0036E+00	1.1047E+00	9.8756E-01	8.5885E-01	9.85586-01	1.1374E+00	9.8928E-01	8.1067E-01	9.8500E-01	1.1814E+00	9.6110E-01	7.4695E-01	1,0225E+00	1.2345E+00	8.7817E-01	6.8165E-01	1,1280E+00	
ANGLE		2.50	9.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ZED CROSS SECTION NE H-PLANE		000000	9.9900E-01	9.3633E-01	9.9818E-01	1.0003E+00	1.0022E+00	1.0026E+00	1.0012E+00	9.99275-01	9.9854E-01	9.99705-01	1.0017E+00	1.0026E+00	1.0016E+00	9.99858-01	9.9929E-01	1.0005E+00	1.0022E+00	1.0023E+00	1.0009E+00	9.9989E-01	1.0009E+00	1.0028E+00	1.0031E+00	1.0015E+00	1.0004E+00	1.0017E+00	1.0040E+00	1.0040E+00	1.0020E+00
NORMALIZED C E-PLANE			0.3000.0	9.90/45-01			1.0078E+00		9.8657E-01			1.0170E+00			9.91275-01			1.0211E+00												9.7457E-01	9.5990E-01
ANGLE	10) •	, .	e c	0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	58.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=25.2

CROSS SECTION		1.0944E+00	1.1062E+00	1.1196E+00	1.1352E+00	1.1502E+00	1.1809E+00	1.21436+00	1.2194E+00	1.2522E+00	1.3450E+00	1.3695E+00	1.3479E+00	1.5104E+00	1.6857E+00	1.5727E+00	1.6797E+00	2.2577E+00	2.2533E+00	1.9126E+00	3.1491E+00	4.3721E+00	2.9186E+00	4.3265E+00	1.2022E+01	1.1439E+01	5.3177€+00	6.37736+01	2.6028E+02	5.248BE+02	6.5212E+02	
NORMALIZED CI		1.3219E+00	8.4754E-01	5.78028-01	1.2019E+00	1.3479E+00	5.7518E-01	6.3492E-01	1.5335E+00	1.1964E+00	2.6592E-01	9.95105-01	1.8978E+00	7.9800E-01	1.7136E-01	1.7960E+00	2.1915E+00	3.3968E-01	6.7604E-01	3.2950E+00	2.966E+00	4.7894E-01	2.4020E+00	8.6456E+00	1.0080E+01	3.0942E+00	1.3562E+01	1.0203E+02	3.041BE+02	5.4274E+02	6.5212E+02	
	ANGLE .	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION		1.0015E+00	1.0025E+00	1.0055E+00	1.0062E+00	1.0038E+00	1.0031E+00	1.0066E+00	1.0092E+00	1.0072E+00	1.0052E+00	1.0088E+03	1.0133E+00	1.0119E+00	1.0090E+00	1.01326+00	1.0195E+00	1.0184E+00	1.0153E+00	1.0211E+00	1.0292E+00	1.0280E+00	1.0260E+00	1.0350E+00	1.0444E+00	1.0431E+00	1.0449E+00	1.0582E+00	1.0677E+00	1.0695E+00	1.0787E+00	
NORMALIZED (TI FILANE	9.7488E-01	1.0333E+00	1.0382E+00	9.7198E-01	9.4209E-01	1.0080E+00	1.0617E+00	9.9970E-01	9.2150E-01	9.7510E-01	1.0754E+00	1.0296E+00	9.0533E-01	9.4167E-01	1.0879E+00	1.0551E+00	8.8127E-01	9.11796-01	1.1118E+00	1.0709E+00	8.3635E-01	8.93596-01	1.1593E+00	1.0636E+00	7.6032E-01	9.08136-01	1.2359E+00	1.0034E+00	6.58435-01	9.9537E-01	
	ANGLE	62.0	64.0	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE	1.0276E+00	1.0244E+00	1.0164E+00	1.0070E+00	9.9980E-01	9.9698E-01	9.9806E-01	1.0007E+00	1.0022E+00	1.0017E+00	1.0000E+00	9.9924£-01	1.0001E+00	1.0016E+00	1.0021E+00	1.0010E+00	9.9958E-01	9.9959E-01	1,0012E+00	1.0026E+00	1,0021E+00	1.00052+00	1.0000E+00	1.0015E+00	1.0031E+00	1.0027E+00	1.0009E+00	1.0007E+00	1.0028E+00	1.0045E+00	1.0034E+00
NORMALIZED C	E-PLANE	+	•		9.8165E-01	•	9.9326E-01	1.0098E+00					9. 9902E-01	+	+	•	•		1.0108E+00		•			1.0042E+00	-	-	9.7466E-01	9.7181E-01	1.0118E+00	1.0372E+00	1.0046E+00	9.59126-01
i	ANGLE	0.0	2.0	4	0.9	9.0	10.0	12.0	0.41	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	45.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=25.4

SS SECTION H-PLANE		1.0927E+00	1.1055E+00	1.1187E+00	1.1349E+00	1.1487E+00	1.1765£+00	1.2144E+00	1.2228E+00	1.2445E+00	1.3366E+00	1.3799E+00	1.3477E+00	1.4847E+00	1.6904E+00	1.5984E+00	1.6430E+00	2.234E+00	2.3132E+00	1.9060E+00	3.026BE+00	4.4259E+00	3.0443E+00	4.0760E+00	1.1855E+01	1.1923£+01	5.0855E+00	6.1873E+01	2.6032E+02	5.3132E+02	6.6239E+02	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.3182E+00	9.9616E-01	5.4386E-01	1.0494E+00	1.4274E+00	7.16586-01	5.05816-01	1.4198E+00	1.3693E+00	3.3007E-01	7.8715E-01	1.8939E+00	1.0153E+00	9.9919E-02	1.5830E+00	2.3226E+00	5.1437E-01	4.7875E-01	3.1377E+00	3.1833£+00	5.96816-01	2.0986E+00	8.414E+00	1.0419E+01	3.4127E+00	1.2502E+01	9.9986E+01	3.0495E+02	5.4964E+02	6.6239E+02	
ANGLE	1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	160.0	
ROSS SECTION H-PLANE		1.0025E+00	1.0016E+00	1.0040E+00	1.0065E+00	1.0053E+00	1.0031E+00	1.0048E+00	1.0088E+00	1.0088£+00	1.0058E+00	1.0069E+00	1.0122E+00	1.0135E+00	1.0100E+00	1.0111E+00	1.01816+00	1.0202E+00	1.0163E+00	1.0187E+00	1.0279E+00	1.0300E+00	1.0264E+00	1.0322E+00	1.0435E+00	1.0451E+00	1.0443E+00	1.0554E+00	1.0676E+00	1.0704E+00	1.0772E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		9.5490E-01	1,0012E+00	1.0475E+00	1.0102E+00	9.4416E-01	9.6671E-01	1.0489E+00	1.0429E+00	9.4589E-01	9.3272E-01	1.0418E+00	1.0719E+00	9.4776E-01	8.9896E-01	1.0377E+00	1.0995E+00	9.3777E-01	8.6282E-01	1.0499E+00	1.1270E+00	9.0144E-01	8,26735-01	1.0940E+00	1.1449E+00	8.2157E-01	8.0978E-01	1.1854E+00	1.1209E+00	6.9049E-01	8.6009E-01	
ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
D CROSS SECTION H-PLANE		1.0277E+00	1.0251E+00	1.0184E+00	1.0097E+00	1.0017E+00	9.9697E-01	9.9637E-01	9.9881E-01	1.0018E+00	1.0030E+00	1.0018E+00	9.9382E-01	9.9896E-01	9.9997E-01	1.0016E+00	1.0020E+00	1.0009E+00	9.9969E-01	1.0001E+00	1.0018E+00	1.0026E+00	1.0016E+00	1.0001E+00	1.0003E+00	1.0022E+00	1.0033E+00	1.0022E+00	1.0007E+00	1.0015E+00	1.0039E+00	1.0045E+00
NORMALIZED C		1.02776+00	1.0201E+00			9.7566E-01	9.8447E-01	1.0039E+00		1.0188E+00		9.8449E-01	9.828CE-01	9.98735-01	1.0155E+00	·					1.0207E+00		9.7447E-01	9.8281E-01	1.01578+00			9.6764E-01	9.84365-01	1.0281E+00	1.0300E+00	9.8006E-01
ANGLE		0.0	5.0	4.0	0.9	0.	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

CORRE TOTALIZZA CORRECTOR CONTROLS (SECONDO)

CROSS SECTION
H-PLANE
1.0908E+00
1.11745E+00
1.1346E+00
1.1346E+00
1.1346E+00
1.13516E+00
1.2388E+00
1.6211E+00
1.6211E+0 1.130.26+00 1.130.22+00 1.130.22+00 1.130.22+00 1.26.36+00 1. ANGLE 124.0 124.0 125.0 138.0 138.0 138.0 138.0 138.0 138.0 158.0 158.0 158.0 177.0 168.0 177.0 1.0039E+00 1.0039E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0036E+00 1.0033E+00 1.0037E+00 1.0037E+00 1.0037E+00 1.0037E+00 1.013E+00 1.013 CROSS SECTION H-PLANE KA=25.6 E-PLANE
E-PLANE
9.5939E-01
9.5933E-01
1.0415E+00
99.4056E-01
1.0415E+00
99.4056E-01
1.0415E+00
99.4056E-01
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99.4056E-00
1.0641E-00
99.4056E-01 ANGLE 645.0 0 665.0 0 1.0016E+00 1.0021E+00 1.0021E+00 1.0024E+00 9.985E-01 1.0024E+00 1.0020E+00 1.0020E+00 1.0021E+00 1.0031E+00 1.0031E ISS SECTION H-PLANE CROSS NORMALIZED (E-PLANE 1.0016E+00 1.0026E+00 1.0018E+00 1.0018E+00 1.0058E+00 1.0103E+00 1.0103E+00 1.0105E+00 1.0056E+00 1.0179E+00

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

COURT AND AND A CONTRACT CONTRACT CONTRACT CONTRACTOR

KA=25.8

NORMALIZED CROSS SECTION	H-PLANE		1.0889E+00	1.1037E+00	1.1167E+00	1.1341E+00	1.1478E+00	1.1681£+00	1.2102E+00	1.2311E+00	1.2354E+00	1.3141E+00	1.3941E+00	1.3597E+00	1.4361E+00	1.6812E+00	1.6572E+00	1.5915E+00	2.1326E+00	2.4172E+00	1.9334E+00	2.7800E+00	4.4807E+00	3.3322E+00	3.6294E+00	1.1438E+01	1.2864E+01	4.7741E+00	5.8081E+01	2.6015E+02	5.4420E+02	6.8317E+02	
NORMALIZED	E-PLANE		1.1564E+00	1.2530E+00	6.4356E-01	7.3771E-01	1.4184E+00	1.0565E+00	3.9726E-01	1.08R2E+00	1.6012E+00	5.9739E-01	4.35395-01	1.7316E+00	1.4399E+00	1.0563E-01	1.1193E+00	2.4602E+00	9.33R3E-01	1.778BE-01	2.7407E+00	3.5497E+00	9.15106-01	1.5533E+00	7.8757E+00	1.1021E+01	4.1437E+00	1.0531E+01	9.5823E+01	3.0626E+02	5.6346E+02	6.8317E+02	
	ANGLE	1 1 1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CROSS SECTION	H-PLANE		1.0048£+00	1.0029E+00	1.001BE+00	1.0043E+00	1.0068E+00	1.0056E+00	1.0034E+00	1.0055E+00	1.0095E+00	1.0090E+00	1.0061E+00	1.0083E+00	1.0137E+00	1.0136E+00	1.0102E+00	1.0135E+00	1.0205E+00	1.0202E+00	1.0170E+00	1.0229E+00	1.0312E+00	1.0300E+00	1.0268E+00	1.0390E+00	1.0475E+00	1.0460E+00	1.0506E+00	1.0649E+00	1.0723E+00	1.0760E+00	
٥	E-PLANE		9.85336-01	9.5277E-01	9.9836E-01	1.0499E+00	1.0115E+00	9.41506-01	9.6894E-01	1.0544E+00	1.0366E+00	9.3381E-01	9.4053E-01	1.0591E+00	1.0585E+00	9.1940E-01	9.1525E-01	1.0752E+00	1.0741E+00	8.8591E-01	8.9801E-01	1,1135E+00	1.0718E+00	8.2284E-01	9.0700E-01	1,1790E+00	1.0231E+00	7.3439E-01	9.7962E-01	1.2509E+00	8.8582E-01	6.67525-01	
	ANGLE	1 1 1 1	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE		9.75346-01	9.7835E-01	9.8600E-01	9.9491E-01	1.0015E+00	1.0037E+00	1.0023E+00	9.9930E-01	9.9884E-01	9.9976E-01	1.0013E+00	1.0018E+00	1.0007E+00	9.99495-01	9.9961E-01	1,0011E+00	1.0022E+00	1.0017E+00	1.0002E+00	9.9965E-01	1.0009E+00	1.0025E+00	1.0022E+00	1.0007E+00	1.0003E+00	1.0019E+00	1.0035E+00	1.0028E+00	1.0010E+00	1.0014E+00	1.0038E+00
NORMALIZED C	E-PLANE		9.7534E-01	9.8390E-01	1.0032E+00		0	0	9.8983E-01		9.9790E-01	1.0104E+00	1.0105E+00		9.366E-01	9.9224E-01	1.0099E+00		1.004BE+00		9.8008E-01		1.0233E+00	1.01216+00	9.8239E-01	9.76655-01	1.0067E+00		1.0071E+00	•	9.7482E-01	1.0220E+00	1.0346E+00
	ANGLE	11111	0.0	5.0	0.4	6.0	0	10.0	12.0	0.4	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	26.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

The second of the second secon

KA=26.0

S SECTION H-PLANE	00736700	00133001	442070	.1156E+00	. 1333E+00	.1480E+00	.1647E+00	. 2062E+00	.2349E+00	.2345E+00	.30156+00	.3967E+00	.3706E+00	.4155E+00	.6676E+00	.6871E+00	.5781E+00	.0789E+00	.4581E+00	.9659E+00	.6602E+00	1.4809E+00	.4899E+00	.4366E+00	.11936+01	.3315E+01	1.6935E+00	3.6192E+01	2.5996E+02	5.5063E+02	5.9367E+02	
CROSS			•	-	_	-	-	-	-	-	-	-	-	÷	-	-	-	ä	'n	-	ď	÷	ë	'n	÷	-	4	'n	~	so.	•	
NORMALIZED CROSS SECTION	004305400	001301400	00-10-50-1	7.6252E-01	6.1777E-01	1.3323E+00	1.2179E+00	4.2744E-01	9.01116-01	1.6418E+00	7.79.10E-01	3.1501E-01	1.58-10E+00	1.6239E+00	1.8144E-01	8.8828E-01	2.4622E+00	1.15475+00	8.1439E-02	2.5093E+00	3.692 E+00	1,10995+00	1.31535+00	7.5728E+00	1.1281E+01	4.5513E+00	9.6245E+00	9.3708E+01	3.0679E+02	5.70376+02	6.9367E+02	
ANGLE	423			126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NOSS SECTION H-PLANE	00496400	00.10000	1.00438400	1.0022E+00	1.0029E+00	1.0061E+00	1.0069E+00	1.0043E+00	1.0042E+00	1.0082E+00	1.0102E+00	1.0073E+00	1.0068E+00	1.0121E+00	1.0149E+00	1.0116E+00	1.0117E+00	1.0189E+00	1.0218E+00	1.0180E+00	1.0205E+00	1.0300E+00	1.0319E+00	1.0239E+00	1.0362E+00	1.0472E+00	1.0477E+00	1.0493E+00	1.0626E+00	1.0728E+00	1.0762E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	00.77	000000	9.0103E	9.6566E-01	1.0316E+00	1.0427E+00	9.6827E-01	9.3916E-01	1.0190E+00	1.0638E+00	9.7598E-01	9.1436E-01	1.0107E+00	1.0855E+00	9.7400E-01	8.8578E-01	1.0161E+00	1.1101E+00	9.4923E-01	8.5283E-01	1,0491E+00	1.1307E+00	8.8509E-01	8.31316-01	1,1251E+00	1,1180E+00	7.7170E-01	8.6598E-01	1.2400E+00	1,0135E+00	6.4131E-01	
ANGLE	0 69	2.79	2.00	66.0	68.0	10.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	96.0	88.0	90.06	95.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9.74056101	9.75825-01	9.83195-01	9.9212E-01	9.99785-01	1.0040F+00	1.0011E+00	1.0015E+00	9.9885E-01	9.9824E-01	9.99775-01	1.0017E+00	1.0021E+00	1.0008E+00	9.9959E-01	9.99a5E-01	1.00:3E+00	1.0021E+00	1.0013E+00	9,99315-01	1.0000E+00	1.0017E+00	1.0027E+00	1.0019E+00	1.0004E+00	1.000RE+00	1.0027E+00	1.0035E+00	1.0020E+00	1.0039£+00	1.0025E+00
NORWALIZED		9.74336-01	9.81878-01	1.00025+00	1.0184E+00	1.0243E+00	1.3137E + 00	9.94145-01	9.8092E-01	9.8498E-01	1.00286.00	1.01745+30	1.01425+00	9.9647E-01	9.8396E-01	9.91446-01	1.0102E+00	1.01620 +00	9.99525-01	9.8075E-01	9.8553: -01	1.01305.00	1.02456+00	1.00176+00	9.7403E-01	9.82925-01	1.0185E+03	1.0265E+00	9.8938E-01	9.63175-01	9.9459E-01	1.0376E+00
ANGLE	1 0		o.	4 0.	9.9	8.3	10.0	12.0	14.0	16.0	13.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	18.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=26.2

CROSS SECTION	H-PLANE	11111111111	1.0857E+00	1.1011E+00	1.1145E+00	1.1322E+00	1.1484E+00	1.1623E+00	1.2013E+00	1.2377E+00	1.2359E+00	1.2891E+00	1.3957E+00	1.3836E+00	1.3988E+00	1.6487E+00	1.7154E+00	1.5733E+00	2.0219E+00	2.4898E+00	2.0094E+00	2.5455E+00	4.4629E+00	3.6536E+00	3.2659E+00	1.0924E+01	1.3750E+01	4.6618E+00	5.4312E+01	2.5970E+02	5.5705E+02	7.0426E+02	
NORMALIZED C	E-PLANE		8.8589E-01	1.3425E+00	9.0727E-01	5.4286E-01	1.2040E+00	1.3501E+00	5.1097E-01	7.2243E-01	1.6269E+00	9.7551E-01	2.4290E-01	1.4035E+00	1.7755E+00	3.0104E-01	6.7069E-01	2.4192E+00	1.3997E+00	2.4123E-02	2.2642E+00	3.8054E+00	1.3242E+00	1.1060E+00	7.2507E+00	1.1511E+01	4.9836E+00	8.7708E+00	9.1572E+01	3.0725E+02	5.7728E+02	7.0426E+02	
	ANGLE	11111	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE		1.0039E+00	1.0051E+00	1.0033E+00	1.0021E+00	1.0047E+00	1.0072E+00	1.0058E+00	1.0038E+00	1.0064E+00	1.0103E+00	1.0090E+00	1.0065E+00	1.0100E+00	1.0150E+00	1.0135E+00	1.0110£+00	1.0166E+00	1.0224E+00	1.0198E+00	1.0190E+00	1.0278E+00	1.0333E+00	1.0300E+00	1.0338E+00	1.0459E+00	1.0493E+00	1.0489E+00	1.0600E+00	1.0726E+00	1.0767E+00	
NORMALIZED CROSS SECTION	E-PLANE	4	1.0384E+00	9.8847E-01	9.5010E-01	9.9653E-01	1.0510E+00	1.0081E+00	9.3656E-01	9.7452E-01	1.0614E+00	1.0254E+00	9.2112E-01	9.5691E-01	1,0775E+00	1.0341E+00	8.9351E-01	9.4954E-01	1.1067E+00	1.0233E+00	8.4794E-01	9.6784E-01	1.1490E+00	9.7136E-01	7,9355E-01	1.0383E+00	1.1804E >00	8,5123E-01	7.7545E-01	1.1792E+00	1.1317E+00	6.6965E-01	
	ANGLE		62.0	64.0	0.99	68.0	20.0	72.0	74.0	0.97	78.0	80.0	82.0	84.0	86.0	98.0	90.06	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION	E-PLANE H-PLANE		9.9878E-01	9.9827E-01	9.9736E-01	9.9729E-01	9.9870E-01	1.0009E+00	1.0024E+00	1.0021E+00	1.0003E+00	9.9831E-01	9.9899E-01	1.0007E+00	1.0021E+00	1.0019E+00	1.0004E+00	9.99335-01	1.0000E+00	1.0016E+00	1.0021E+00	1.0010E+00	9.9991E-01	1.0006E+00	1.0023E+00	1.0027E+00	1.0013E+00	1.0003E+C0	1.0015E+00	1.0034E+00	1.0032E+00	1.0014E+00	1.0014E+00
NORMAL 1 ZED C	E-PLANE		9.9878E-01	9.9779E-01	.9718E	1.0005E+00	1.0068E+00	1.0098E+00	1.0043£+00	9.9311E-01	9.8659£-01	9.9342E-01	1.0092E+00	1.0179E+00	1.0083E+00	9.8876E-01	9.8r81E-01	9.95076-01	1.0157E+00	1.0167E+00	9.9537E-01	9.79696-01	9.9313E-01	1.0190E+00	1.01895+00	9.88456-01	9.7087E-01	9.9604E-01	1.0290E+00	1.01616+00	9.7295E-01	9.7014E-01	1.0185E+00
	ANGLE		0.0	9.0	4.0	0.9	8 .0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

CONDUCTING SCATTERING FROM

E-PLANE

E-PLANE

7.6133E-01

1.3055E+00

1.3055E+00

1.0490E+00

1.0490E+00 CROSS SECTION
H-PLANE
1.0026E+00
1.0026E+00
1.0026E+00
1.0024E+00
1.0032E+00
1.0032E+00
1.0032E+00
1.0033E+00
1.0033E+00
1.0152E+00
1.0143E+00
1.0143E+00
1.0143E+00
1.0252E+00
1.0252E+00
1.0238E+00
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1.0238E+00
1.0238E+00
1.0238E+00
1.0238E+00
1.0238E+00
1.0252E+00
1.0250E+00 ANGLE 665.0 0 ##PPLANE
| 1.0243E+00
| 1.0212E+00
| 1.0212E+00
| 1.0312E+00
| 1.0312E+00
| 1.0312E+00
| 1.0013E+00
| 1.0010E+00
| 1.0010E+00
| 1.0020E+00
| 1.003E+00
ANGL
1.0847E+00 1.19097E+00 1.1308E+00 1.1508E+00 1.1908E+00 1.2391E+00 1.2408E+00 1.2554E+00 1.255

DIRECTION BACKSCATTER FROM DEGREES Z

KA=26.6

NORMALIZED CROSS SECTION NORMALIZED CROSS SECTION E-PLANE H-PLANE H-PLANE H-PLANE	1.0015E+00 122.0 6.7021E+01	1.0040E+00 124.0	1 1.0053E+00 126.0 1.1935E+00 1	1.0035E+00	1 1.0024E+00 130.0 8.8559E-01 1	0 1.0052E+00	1.0076E+00	1.0058E+00 136.0 4.5231E-01 1	01 1.0042E+00 1.2439E+00 1.2439E+00	1.0076E+00	1.0110E+00 142.0 3	1.0089E+00	1.0073E+00	1.0121E+00	1.0161E+00	1.0131E+00 152.0 2.2057E+00 1	1.0127E+00 154.0	00 1.0200E+00 156.0 2.99!5E-02 2.522E+00	1.0234E+00	1.0196E+00	1.0228E+00 1.7972E+00	1.0326E+00 164.0 7.7170E-01	1.0337E+00 1.0337E+00 6.5594E+00	1.0317E+00	1.0411E+00 170.0	1.0509E+00	1.0505E+00	1 1.0557E+00	1.0701E+00 178.0 5.9112E+02	1.0780E+00 180.0 7.2568E+02
		_	-		_	Ī	•-	-	-	_	•••	•	•	Ī				••	-	••	_	•-	•	•	_		_			•
ANGL	122.	124.	126.	128.	130.	132.	134.	136.	138.	140.	142.	144.	146.	148.	150.	152.	154.	156.	158.	160.	162.	164.	166.	168.	170.	172.	174.	176.	178.	180.
CROSS SECTION H-PLANE	1.0015E+00	1.0040E+00	1.0053E+00	1.0035E+00	1.0C24E+00	1.0052E+00	1.0076E+00	1.0058E+00	1.0042E+00	1.0076E+00	1.0110E+00	1.0089E+00	1.0073E+00	1.0121E+00	1.0161E+00	1.0131E+00	1.0127E+00	1.0200E+00	1.0234E+00	1.0196E+00	1.0228E+00	1.0326E+00	1.0337E+00	1.0317E+00	1.0411E+00	1.0509E+00	1.0505E+00	1.0557E+00	1.0701E+00	1.0780E+00
NORMALIZED (E-PLANE	1.0143E+00	1,0399E+00	9.8906E-01	9.4809E-01	9.9875E-01	1.0540E+00	1.0023E+00	9.3225E-01	9.8573E-01	1.0686E+00	1.0073E+00	9.0996E-01	9.8234E-01	1.0898E+00	9.95316-01	8.7821E-01	1.0012E+00	1,1165E-00	9.50316-01	8,4620E-01	1,0601E+00	1,1262E+00	8.5521E-01	8.51396-01	1,1652E+00	1.0630E+00	7.2594E-01	9.6302E-01	1,2625E+00	8.6002E-01
ANGLE	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	98.0	0.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0
ZED CROSS SECTION NE H-PLANE	1.0261E+00	1.0234E+00	1.0165E+60	1.007BE+00	1.0004E+00	9.96716-01	9.9713E-01	9.9990E-01	1.0023E+00	1.0024E+00	1.0008E+00	9.9924E-01	9.9940E-01	1.0009E+00	1.0018E+00	1.0012E+00	9.9993E-01	9.9984E-01	1.0012E+00	1.0022E+00	1.0016E+00	1.0002E+00	1.0002E+00	1.0018E+00	1.0028E+00	1.0018E+00	1.0005E+00	1.0014E+00	1.0035E+00	1.00367+00
25	1.0261E+00	1.01812+00	LLI			9.8968E-01								1.0155E+00	1.00315+00			1.0082E+00	1.0192E+00	1.0031E+00	9.7934E-01	9.8261E-01		1.0249E+00		9.7176E-01		1.0268E+00	1.0218E+00	
ANGLE	0.0	5.0	4	6.0	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

CONTROL OF THE PROPERTY OF THE

XA=26.8

ROSS SECTION H-PLANE	 1.08386+00	1.0969£+00	1.1113E+00	1.1275£+00	1.14896+00	1.1605E+00	1.1849€+00	1.2368E+00	1.24946+00	1.2607E+00	1.3727€+00	1.42416+00	1.3773E+00	1.5699E+00	1.7768E+00	1.6070£+00	1.8490£+00	2.5220£+00	2.1906E+00	2.2516E+00	4.3050E+00	4.156BE+00	2.8954E+00	1.0005€+01	1.4939E+01	4.8495E+00	4.87446+01	2.5847E+02	5.7630E+02	7.3651E+02	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	6.2620E-01	1.0971E+00	1.2962E+00	6.4195E-01	7.3296E-01	1.45596+00	9.7164E-01	3.8471E-01	1.2870E+00	1.5000E+00	3.4172E-01	7.8309E-01	1.96498+00	8.5145E-01	1.8261E-01	2.0454E+00	2.0542E+00	9.19046-02	1.4914E+00	3.9437E+00	2.0484E+00	6.5027E-01	6.1960E+00	1.2012E+01	6.4021E+00	6.5343E+00	8.5071E+01	3.0816E+02	5.9804E+02	7.3651E+02	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NOSS SECTION H-PLANE	1.0013E+00	1.0027E+00	1,0052E+00	1.0048E+00	1.0027E+00	1.0037E+00	1.CO72E+00	1.0073E+00	1.0046E+00	1.0059E+00	1.0104E+00	1.0105E+00	1.0075E+00	1.0101E+00	1.0158E+00	1.0150E+00	1.0122E+00	1.0177E+00	1.0239E+00	1.0213E+00	1.0212E+00	1.0307E+00	1.0353E+00	1.0322E+00	1.0385E+00	1.0504E+00	1.0520E+00	1.0544E+00	1.0681E+00	1.0783E+00	
NORMALIZED CROSS SECTION F-PLANE H-PLANE	9.8424E-01	1.0372E+00	1,0225E+00	9.5823E-01	9.6415E-01	1.0386E+00	1.0391E+00	9.5206E-01	9.4566E-01	1.0452E+00	1.0513E+00	9.3426E-01	9.3208E-01	1.0667E+00	1.0534E+00	8.9669E-01	9.34436-01	1.1080E+00	1.0263E+00	8.3956E-01	9.7817E-01	1,1554E+00	9.3799E-01	7.9479E-01	1.0924E+00	1.1503E+00	7.7528E-01	8.48785-01	1.2530E+00	9.8924E-01	
u CV	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	90.06	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
C CROSS SECTION	1.00315+00	1.0034E+00	1.00395+00	1.0035E+00	1.001BE+00	9.99588-01	9.98.10E-01	. 9910E-01	1.00105+00	1.0022E+00	1.0017E+00	9.999E-01	9.98998-01	9.99755-01	1.0014E+00	1.0020E-00	1.0010E+00	9.99808-01	1.0001E+CO	1.3015E+00	1.0022E+00	1.0011E+00	1.000CE+00	1.0008E+00	1.0025E+00	1.0027E+00	1.0012E+00	1.0007E+00	1.0024E+00	1.0039E+00	1.0028E+00
NORMALIZED C	*	1.30355+00	1.00325.90		9.9340E-01		9.98196-01		1.01335+00	1.00395.00	9.83685-01	9 84141-01	9.97425-01	1.0152E+00	1.0164E+00		9.8205E-01	9.9007E-01	1.0122E+00	1.0172E+00	9.9542E-01	9.7742E-01	9.9285E-01	1.0221E+00			9.7116k-01	1.00536+00	1.0323E+00	1.00196+00	9.6108E-01
	0	0	4	9	60	0.01	12.0	4.0	16.0	18.0	20.0	22.0	25.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	90.0	52.0	54.0	56.0	58.0	0. 9

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

1.0938E+00 1.10938E+00 1.1297E+00 1.1293E+00 1.2332E+00 1.2332E+00 1.2332E+00 1.2332E+00 1.2332E+00 1.2356E+00 1.2551E+00 CROSS SECTION H-PLANE 35526-01 1.35256-01 1.35256-00 1.35256-00 1.38346-00 1.14306-00 1.14306-00 1.10846-00 1.08976-00 1.08976-00 1.08976-00 1.08976-00 1.38516-00 1. NORMALIZED E-PLANE 1.0020E+00 1.0043F+00 1.0043E+00 1.0037E+00 1.0037E+00 1.0039E+00 1.0049E+00 1.0049 NORMALIZED E-PLANE 9,6275E-01 1,0138E+00 9,8762E-01 9,8762E-01 1,0555E-01 1,0555E-01 1,0017E-00 1,0017 ANGLE 67.0 0 68.0 0 68.0 0 69. 9.7835E-01 9.8126E-01 9.9653E-01 1.0032E+00 1.0032E+00 1.0016E+00 1.0016E+00 1.0018E+00 1.0018E+00 1.0018E+00 1.0018E+00 1.0018E+00 1.0002E+00 1.0003E+00 1.0003 NORMALIZED E-PLANE 9. 7835E-01 1. 0175E+00 1. 01

NGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=27.2

ROSS SECTION	H-PLANE		1.0840E+00	1.0944E+00	1.1093E+00	1.1240E+00	1.1469E+00	1.1627E+00	1.1769E+00	1.2281E+00	1.2602E+00	1.2541E+00	1.3456E+00	1.4424E+00	1.3875E+00	1.5115E+00	1.7886E+00	1.6614E+00	1.7493E+00	2.48B6E+00	2.3355E+00	2.1127E+00	4.1225E+00	4.4787E+00	2.7717E+00	9.3169E+00	1.5617E+01	5.1977E+00	4.5114E+01	2.5729E+02	5.8910E+02	7.5840E+02	
NORMALIZED CROSS SECTION	E-PLANE		6.9627E-01	8.1940E-01	1.3552E+00	9.14755-01	5.2752E-01	1.2661E+00	1.2947E+00	4.1221E-01	9.2042E-01	1.6711E+00	6.3388E-01	4.2928E-01	1.8456E+00	1.2837E+00	5.5803E-02	1.6428E+00	2.3805E+00	3.2349E-01	1.0019E+00	3.8638E+00	2.5604E+00	5.0263E-01	5.4479E+00	1.2180E+01	7.4218E+00	5.3192E+00	8.0683E+01	3.0838E+02	6.1188E+02	7.5840E+02	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0031E+00	1.0015E+00	1.0029E+00	1.0056E+00	1.005CE+00	1.0029E+00	1.0044E+00	1.0078E+00	1.0073E+00	1.0048E+00	1.0072E+00	1.0115E+00	1.0103E+00	1.0020E+00	1.0125E+00	1.0172E+00	1.0145E+00	1.0140E+00	1.0216E+00	1.0249E+00	1.0212E+00	1.0257E+00	1.0355E+00	1.0355E+00	1.0352E+00	1.0467E+00	1.0544E+00	1.0543E+00	1.0637E+00	1.0774E+00	
NORMALIZED CROSS SECTION	E-PLANE		9.6092E-01	9.8244E-01	1,0385E+00	1.0212E+00	9.5358E-01	9.6651E-01	1.0448E+00	1.0317E+00	9.4017E-01	9.5666E-01	1.0611E+00	1.0327E+00	9.1315E-01	9.6028E-01	1.0903E+00	1.0098E+00	8.7288E-01	9.95916-01	1.1215E+00	9.3996E-01	B.4484E-01	1.0841E+00	1.1087E+00	8.1568E-01	8.9598E-01	1.2016E+00	9.7197E-01	7.1078E-01	1.0958E+00	1.2114E+00	
	ANGLE	1 1 1 1	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	0.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION	H-PLANE		9.7577E-01	9.78395-01	9.8527E-01	9.9383E-01	1.0009E+00	1.0041E+C0	1.0032E+00	1.0005E+00	9.9849E-01	9.9832E-01	1.0006E+00	1.0019E+00	1.0014E+00	1.0000E+00	9.9959E-01	1.0007E+00	1.0018E+00	1.0014E+00	1.0001E+00	9.9984E-01	1.0012E+00	1.0023E+00	1.0017E+00	1.0004E+00	1.0006E+00	1.0023E+00	1.0029E+00	1.0015E+0C	1.0007E+00	1.0024E+00	1.0041E+00
NORMALIZED C	E-PLANE		9.75776-01	9.8362E-C1	1.0022E+00	1.0189E+00	1,0218E+00	1.0085E+00	9.89912-01	9.8196E-01	9.9167E-01	1.00948+00	1.0166E+00	1.0055E+00	9.8903E-01	9.87405-01	1.0028E+00	1.0143E+00	1.3057E+00	9.8622E-01	9.84765-01	1,0069E+00	1.02205+00	1.00522+00	9.7847E-01	9.8341E-01	1.0154E+00	1.0230E+00	9.8939E-01	9.6855E-01	1.0005E+00	1.0343E+00	1.0068E+00
	ANGLE		o 0	5.0	4.	9.0	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=27.4

NGLE E-PLANE	NORMALIZED CRUSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED C E-PLANE	NORMALIZED CKUSS SECTION E-PLANE H-PLANE	ANGLE	NUKWALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE M-PLANE
;	***************************************			******			
0 9.9723E-01	01 9.9723E-01	62.0	9.7932E-01	1.0041E+00	122.0	7.9814E-01	1.0842E+00
9.9689E-01		64.0	9.6005E-01	1.0022E+00	124.0	7.0549E-01	1.0935E+00
4.0 9.9783E-01		0.99	1,0140E+00	1.0019E+00	126.0	1.3046E+00	1.1084E+00
-	_	68.0	1.0424E+00	1.0046E+00	128.0	1.0669E+00	1.1224E+00
_	_	70.0	9.8232E-01	1.0059E+00	130.0	4.9787E-01	1.1451E+00
_	_	72.0	9.4488E-01	1.0038E+00	132.0	1.1173E+00	1.1640E+00
_	_	74.0	1.0125E+00	1.0033E+00	134.0	1.4119E+00	1.1746E+00
6	_	76.0	1,0559£+00	1.0067E+00	136.0	5.0355E-01	1.2219E+00
16.0 9.8860E-01	10-30960.6	78.0	9.7607E-01	1.0083E+00	138.0	7.3875E-01	1.2643E+00
0	_	80.0	9.2870E-01	1.0058E+00	140.0	1.6798E+00	1.2549E+00
-		82.0	1,0239E+00	1.0058E+00	142.0	8.2076E-01	1.330BE+00
22.0 1.31396+00		84.0	1.06795+00	1.0105E+00	144.0	3.0386E-01	1.4465E+00
σ	-	86.0	9.5013E-01	1.0118E+00	146.0	1.718BE+00	1.3987E+00
0	_	88.0	9.1576E-01	1.00B6E+00	148.0	1.4880E+00	1.484E+00
6	o	90.06	1,0572E+00	1.0105E+00	150.0	6.1372E-02	1.7844E+00
_	_	92.0	1,0658E+00	1.0167E+00	152.0	1.4165E+00	1.6945E+00
-	_	94.0	8.9674E-01	1.0163E+00	154.0	2.4939E+00	1.7086E+00
-	_	96.0	9.2783E-01	1.0135E+00	156.0	4.8602E-01	2.4564E+00
O	_	0.86	1.1135E+00	1.01946+00	158.0	7.8070E-01	2.4094E+00
38.0 9.89535-01	-	100.0	1.0176E+00	1.0256E+00	160.0	3.7735E+00	2.0637E+00
_	00 1.0003E+00	102.0	8.2905E-01	1.0227E+00	162.0	2.8134E+00	4.0123E+00
-	1.0018E+00	104.0	1.0037E+00	1.0238E+00	164.0	4.7683E-01	4.6289E+00
6	-	106.0	1,1552E+00	1.0341E+00	166.0	5.0689E+00	2.7472E+00
9.74436-01	1,0012E+00	108.0	8.8711E-01	1.0372E+00	168.0	1.2213E+01	8.9576E+00
48.0 9.95486-01	01 1.0002E+00	110.0	8.1644E-01	1.0350E+00	170.0	7.9458E+00	1.5916E+01
	00 1.0013E+00	112.0	1.1564E+00	1.0442E+00	172.0	4.794BE+00	5.4343E+00
_	_	114.0	1.0797E+00	1.0547E+00	174.0	7.8479E+01	4.3330E+01
54.0 9.7486E-01	01 1.0026E+00	116.0	7.1206E-01	1.0552E+00	176.0	3.0837E+02	2.5660E+02
9.7716E-01	1,0010E+00	118.0	9.7712E-01	1.0618E+00	178.0	6.1879E+02	5.9548E+02
-	00 1.0013E+00	120.0	1.2680E+00	1.0763E+00	180.0	7.6948E+02	7.8948E+02
00.000	•						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

ABOURT PERSONAL SECTION OF THE PROPERTY OF THE

KA=27.6

CROSS SECTION	H-PLANE	1.0844E+00	1.092BE+00	1.1075E+00	1.1211E+00	1.1429E+00	1.1650E+00	1.1735E+00	1.2151E+00	1.266BE+00	1.2582E+00	1.3164E+00	1.4467E+00	1.4128E+00	1.4604E+00	1.7736E+00	1.7294E+00	1.6755E+00	2.4149E+00	2.48!4E+00	2.0291E+00	3.8916E+00	4.7692E+00	2.7471E+00	8.5913E+00	1.6187E+01	5.7105E+00	4.1570E+01	2.5583E+02	6.0186E+02	7.8063E+02	
۵	E-PLANE	9.2477E-01	6.3011E-01	1.2083E+00	1.2040E+00	5.2272E-01	9.53216-01	1.4832E+00	6.3624E-01	5.7836E-01	1.635GE+00	1.0179E+00	2.2375E-01	1.55616+00	1.6709E+00	1.1262E-01	1.1843£+00	2.5692E+00	6.73656-01	5.8144E-01	3.6517E+00	3.0592E+00	4.8274E-01	4.6905E+00	1.2212E+01	8.4755E+00	4.3258E+00	7.6272E+01	3.0828E+02	6.2571E+02	7.8063E+02	
,	ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE	1.0043E+00	1.0033E+00	1.0017E+00	1.0033E+00	1.0059£+00	1.0051E+00	1.0031E+00	1.0052E+00	1.0085E+00	1.0072E+00	1.0052E+00	1.0088E+00	1.0124E+00	1.0100E+00	1.0092E+00	1.0152E+00	1.0178E+00	1.01426+00	1.0171E+00	1.0251E+00	1.0246E+00	1.0229E+00	1.0318E+00	1.0383E+00	1.0358E+00	1.0418E+00	1.0541E+00	1.0564E+00	1.0604E+00	1.0746E+00	
NORMALIZED CROSS SECTION	E-PLANE	1 0078E+00	9.5865E-01	9.8210E-01	1.0410E+00	1.0180E+00	9.4853E-01	9.7373E-01	1.0531E+00	1.0196E+00	9.2887E-01	9.7569E-01	1.0736E+00	1.0025E+00	8.9982E-01	1.0021E+00	1.0957E+00	9.5016E-01	8.7988E-01	1.0687E+00	1,0853E+00	8.5567E-01	9.1948E-01	1.1586E+00	9.7918E-01	7.7396E-01	1.0741E+00	1.1649E+00	7.6203E-01	8.588E-01	1.2741E+00	
	ANGLE	62.0	64.0	66.0	0.89	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE	1.0213F+00	1.0183E+00	1.0111E+00	1.0034E+00	9.9855E-01	9.9787E-01	9.9977E-01	1.0015E+00	1.0015E+00	1.0002E+00	9.9941E-01	1.0001E+00	1.0014E+00	1.0016E+00	1.0004E+00	9.9948E-01	1.0001E+00	1.0015E+00	1.0019E+00	1.0008E+00	9.9991E-01	1.0007E+00	1.0022E+00	1.0020E+00	1.0006E+00	1.0005E+00	1.0022E+00	1.0032£+00	1.0019E+00	1.0009E+00	1.0024E+00
NORMALIZED C	E-PLANE	1.02135100	1.0130F+00		9.84135-01	9.8789E-01		1.0116E+00				_				9.8470E-01	9.9614E-01	1.0153E+00					1.0189E+00	1.0120E+00			1.0114E+00	1.0275E+00	9.95266-01			1.03422+00
	ANGLE			4	0.9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	0.44	46.0	49.0	50.0	52.0	54.0	56.0	28.0	0.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=27.8

2.0 1.0245E 6.0 9.8181E 8.0 9.8181E 110.0 9.8049E 110.0 1.015E 114.0 1.0175E 118.0 9.8889E 24.0 1.0130E 24.0 1.0130E 28.0 9.8880E 28.0 9.8880E 28.0 9.8890E 32.0 1.0130E 33.0 1.0030E 38.0 9.8650E 44.0 1.0084E 38.0 9.8650E 38.0 9.8650E 44.0 1.0084E	1.0245E+00 9.8181E-01 9.8181E-01 9.9462E-01 9.9462E-01 1.015E+00 1.015E+00 9.8899E-01 9.8899E-01 1.0199E-01 9.8896E-01 9.8896E-01 9.8896E-01 9.8896E-01 9.8866E-01 9.8866E-01	1.0245E+00 1.0147E+00 1.00147E+00 1.00147E+00 9.99475E-01 9.99775E-01 1.0004E+00 1.0004E+00 1.0001E+00 1.0001E+00 1.0001E+00	662.0 664.0 666.0 666.0 77.0 77.0 77.0 77.0 88.0 88.0 68.0	1.0308E+00 9.7857E-01 9.5938E-01 1.0181E+00 1.0428E+00 9.7490E-01 1.0250E+00 1.0518E+00 9.3608E-01 1.0485E+00 1.0485E+00	1.0037E+00 1.0043E+00 1.0022E+00 1.0022E+00 1.0051E+00 1.0039E+00 1.0039E+00 1.0037E+00 1.0037E+00 1.0057E+00 1.0057E+00	122.0 122.0 128.0 128.0 132.0 132.0 136.0 144.0 144.0	1.0551E+00 1.0742E=00 1.3087E+00 5.9854E=01 7.9773E=01 1.5019E+00 7.9773E=01 1.5474E+00 1.5474	1.0843E+00 1.0923E+00 1.106E+00 1.1201E+00 1.1404E+00 1.1737E+00 1.1263E+00 1.263E+00 1.263E+00 1.263E+00 1.4263E+00
	652E+00 662E-01 662E-01 752E-01 752E-01 752E-01 752E-01 752E-01	1.0218E+00 1.0047E+00 1.0040E+00 9.9940E-01 9.9975E-01 1.0028E+00 1.0024E+00 1.0012E+00 1.0001E+00 1.0001E+00 1.0001E+00 1.0001E+00	6 4 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9.7857E-01 1.0181E-01 1.0428E-00 9.7490E-01 1.0250E+00 1.0250E+00 1.0218E+00 9.3608E-01 1.0485E+00 1.0485E-00	1.0043E+00 1.0022E+00 1.0022E+00 1.0051E+00 1.0051E+00 1.0039E+00 1.0037E+00 1.0057E+00 1.0057E+00 1.0071E+00	0.427 0.427 0.000	6. 042 cE - 01 1.308 7E + 00 5. 985 4E - 01 7. 917 3E - 01 1. 501 9E + 00 7. 977 3E - 01 1. 542 7E + 00 1. 542 7E + 00	1.0656.00 1.12016.00 1.12016.00 1.12016.00 1.17376.00 1.17376.00 1.2636.00 1.2636.00 1.3636.00 1.44296.00
	62E-01 48HE-01 62E-01 72E-01 75E+00 75E+00 99E-01 30E+00 99E-01	1.00147E+00 9.9940E-01 9.9675E-01 1.0008E+00 1.0078E+00 1.0017E+00 9.99917E-01 1.0001E+00 1.0001E+00 1.0001E+00	666.0 666.0 77.7 77.0 76.0 88.0 88.0 68.0 68.0	9.5338E-01 1.0428E+00 9.7490E-01 9.6477E-01 1.0538E+00 9.5658E-01 1.0485E+00 1.0485E+00 1.0485E+00 1.0566E+00 1.0566E+00	1.0024E+00 1.0025E+00 1.0051E+00 1.0051E+00 1.0039E+00 1.0077E+00 1.0077E+00 1.0077E+00	126.0 1320.0 132.0 134.0 136.0 146.0 147.0	1.0746E+00 1.3087E+00 5.9854E+00 7.9175E-01 7.9778E-01 4.5237E-01 1.5417E+00	1.1066E+00 1.1004E+00 1.1055E+00 1.1737E+00 1.2082E+00 1.2635E+00 1.2635E+00 1.3038E+00 1.4295E+00
	89 E - 01 49 E - 01 49 E - 01 50 E - 01 75 E + 00 99 E - 01 29 E - 01 29 E - 01 67 E - 01 67 E - 01	1.0061E+00 9.9940E-01 9.99797E-01 1.0008E+00 1.0017E+00 9.99917E-01 1.0001E+00	68.0 7.2.0 7.4.0 7.4.0 7.6.0 8.6.0 8.6.0 8.6.0	1.0181E+00 9.7490E+00 9.7490E-01 9.6617E-01 1.0250E+00 9.3608E-01 1.0485E+00 1.0485E+00 1.0485E+00 1.0506E+00	1.0022E+00 1.0051E+00 1.0051E+00 1.0039E+00 1.0039E+00 1.0037E+00 1.0057E+00 1.0071E+00	12.8 13.8 13.6 13.6 13.6 14.0 14.0 14.0	5.9854E-01 7.9178E-01 7.9178E-01 1.5019E+00 7.9773E-01 1.5424E+00 1.5177E+00	1.1201E+00 1.1404E+00 1.1655E+00 1.1737E+00 1.263E+00 1.2635E+00 1.2635E+00 1.3635E+00 1.4295E+00
	495-01 525-01 525-00 995-01 995-01 305-00 935-00	9.9940E-01 9.9675E-01 1.0008E+00 1.0024E+00 1.0024E+00 9.9917E-01 1.0001E+00 1.0001E+00	70.0 74.0 74.0 76.0 78.0 88.0 88.0 88.0	1.0428E+00 9.7490E-01 9.4617E-01 1.0250E+00 1.0518E+00 9.5658E-01 1.0485E+00 1.0485E+00 1.0506E+00	1.0051E+00 1.0051E+00 1.0053E+00 1.0075E+00 1.0057E+00 1.0057E+00 1.0071E+00	130.0 132.0 138.0 136.0 140.0 144.0	5.9854E-01 1.9175E-01 1.5019E+00 7.9773E-01 1.5427E-01 1.217E+00 1.217E+00	1.1404E+00 1.165E+00 1.172082E+00 1.2673E+00 1.265E+00 1.265E+00 1.429E+00
	62E-01 23E+00 55E+00 55E+00 99E-01 80E-01 30E+00 93E-01 67E-01	9.9675E-01 1.0008E-00 1.0024E+00 1.0017E+00 9.9994E-01 9.9917E-01 1.0001E+00	72.0 76.0 76.0 78.0 80.0 84.0 88.0	9.7490E-01 9.4617E-01 1.0250E+00 9.5658E-01 9.3608E-01 1.0485E+00 1.050E+00	1.0061E+00 1.0039E+00 1.0037E+00 1.0077E+00 1.0057E+00 1.0071E+00	0.486 0.086 0.086 0.086 0.044 0.066 0.044	7.9175E-01 1.5019E+00 7.9773E-01 4.5237E-01 1.5424E+00 1.2117E+00	1.1655E+00 1.2037E+00 1.2673E+00 1.2635E+00 1.3635E+00 1.4289E+00
	23E+00 55E+00 99E-01 80E-01 30E+00 93E+00 95E-01	9.9797E-01 1.0008E+00 1.0017E+00 9.999E-01 9.9917E-01 1.0001E+00	7.47 0.08 0.09 0.09 0.09 0.09 0.09 0.09 0.09	9.4617E-01 1.0250E+00 9.5658E-01 9.3658E-01 1.0485E+00 1.786E-01	1.0038E+00 1.0037E+00 1.0037E+00 1.0055E+00 1.0057E+00 1.0120E+00	134.0 138.0 138.0 142.0 144.0	1.5019E+00 7.9773E-01 4.5237E-01 1.5424E+00 1.2117E+00	1.1737E+00 1.2082E+00 1.2673E+00 1.2635E+00 1.3033E+00 1.4289E+00
	75E+00 555E+00 899E-01 296E-01 296E-01 67E-01	1.0008E+00 1.0024E+00 1.0017E+00 9.9994E-01 1.0001E+00 1.0014E+00	76.0 788.0 842.0 86.0 0	1.0550E+00 1.0518E+00 9.5658E-01 9.3608E-01 1.0495E+00 1.0506E+00	1.0039E+00 1.0077E+00 1.0085E+00 1.0057E+00 1.0071E+00	136.0 138.0 140.0 142.0	7.9773E-01 4.5237E-01 1.5424E+00 1.2117E+00	1.2082E+00 1.2673E+00 1.2635E+00 1.3033E+00 1.4429E+00
	296-01 806-01 296-01 306-01 306-00 936-00 936-01	1.0024E+00 1.0017E+00 9.9994E-01 9.9917E-01 1.0001E+00 1.0014E+00	78.0 80.0 82.0 86.0	1.0518E+00 9.5658E+01 9.3608E+01 1.0485E+00 1.050E+00	1.0077E+00 1.0085E+00 1.0057E+00 1.0071E+00	138.0 140.0 142.0	4.5237E-01 1.5424E+00 1.2117E+00 1.9193E-01	1.2673E+00 1.2635E+00 1.3033E+00 1.4429E+00
	999E-01 80E-01 29E-01 30E+00 93E+00 90E-01	1.0017E+00 9.9994E-01 9.9917E-01 1.0001E+00 1.0014E+00	8 8 8 8 8 6 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 .	9.5658E-01 9.3608E-01 1.0485E+00 1.0506E+00	1.0085E+00 1.0057E+00 1.0071E+00 1.0120E+00	140.0 142.0 144.0	1.5424E+00 1.2117E+00 1.9193E-01	1.2635E+00 1.3033E+00 1.4429E+00 1.4289E+00
	29E-01 30E+00 30E+00 93E+00 90E-01	9.9994E-01 9.9917E-01 1.0001E+00 1.0014E+00	82.0 84.0 86.0	9.3608E-01 1.0485E+00 1.0506E+00	1.0057E+00 1.0071E+00 1.0120E+00	142.0	1.2117E+00 1.9193E-01	1.3033E+00 1.4429E+00 1.4289E+00
	30E+00 30E+00 93E+00 90E-01 67E-01	9.9917E-01 1.0001E+00 1.0014E+00	84.0 86.0	1.0485E+00 1.0506E+00 0.1785E-01	1.0071E+00 1.0120E+00	144.0	1.9193E-01	1.4429E+00 1.4289E+00
	30E+00 93E+00 90E-01 67E-01	1.0001E+00 1.0014E+00	86.0 88.0	1.0506E+00	1.0120E+00		. 36676.00	1.4289E+00
	93E+00 90E-01 67E-01	1.0014E+00	88.0	0 1785F-01	1.0116F+00	146.0	1.300/6+00	
	90E-01 67E-01 11E+00	1.0014F+00				148.0	1.8238E+00	1.4404E+00
	67E-01		90.0	9.4466E-01	1.0089E+00	150.0	2.0690E-01	1.7564E+00
	11E+00	1.0003E+00	92.0	1.0904E+00	1.0132E+00	152.0	9.5475E-01	1.7647E+00
-	00.700	9.99716-01	94.0	1.0156E+00	1.0183E+00	154.0	2.6041E+00	1.6509E+00
	64E+00	1.0006E+00	96.0	8.6649E-01	1.0157E+00	156.0	B.8104E-01	2.3654E+00
	82E+00	1.0018E+00	98.0	1.0010E+00	1.0155E+00	158.0	4.0825E-01	2.5499E+00
	14E-01	1.0016E+00	100.0	1.1240E+00	1.0236E+00	160.0	3.5008E+00	2.0094E+00
	82E-01	1.0003E+00	102.0	9.1679E-01	1.0263E+00	162.0	3.2942E+00	3.7624E+00
	66E+00	1.0000E+00	104.0	8.5319E-01	1.0230E+00	164.0	5.1970E-01	4.8977E+00
	26E+00	1.0014E+00	106.0	1.1168E+00	1.0294E+00	166.0	4.3158E+00	2.7709E+00
	195+00	1.0024E+00	108.0	1.0701E+00	1.0385E+00	168.0	1.2177E+01	8.2202E+00
	82E-01	1.0016E+00	110.0	7.7730E-01	1.0372E+00	170.0	9.00825+00	1.6429E+01
	70E-01	1.0004E+00	112.0	9.7261E-01	1.0399E+00	172.0	3.9122E+00	6.0245E+00
	37E+00	1.0012E+00	114.0	1.2112E+00	1.0526E+00	174.0	7.4065E+01	3.9834E+01
	.01736+00	1.0030E+00	116.0	8.5060E-01	1.0576E+00	176.0	3.08115+02	2.5499E+02
œ	.7574E-01	1.0029E+00	118.0	7,6182E-01	1.0597E+00	178.0	6.32615+02	6.0822E+02
gn G	61E-01	1.0012E+00	120.0	1.2294E+00	1.0728E+00	180.0	7.9185E+02	7.9185E+02
60.0 1.01	.0193E+00	1.0014E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=28.0

S SECTION	U-PLANE		.0839E+00	.0919E+00	.1056£+00	.1194E+00	.1379E+00	.1653E+00	.1749E+00	.2018E+00	.2657E+00	.2701E+00	. 2921E+00	.4353E+00	.445BE+00	.4253E+00	.7337E+00	.7988E+00	.6352E+00	. 3091E+00	2.6129E+00	2.0043E+00	3.6267E+00	5.0128E+00	2.8177E+00	7.8469€+00	.6640E+01	8.3745E+00	3.81266+01	2.5409E+02	6.1456E+02	8.0316E+02	
NORMALIZED CROSS SECTION	ETPLANE		_	_	9.3667E-01 1	1.3685E+00 1	7.1594E-01	6.5038E-01 1	1.46GBE+00 1	9.7300E-01	3.7091E-01 1	1.4075E+00 1	1.3890E+00 1	2.11336-01	1.1609E+00	1.93938+00	3.397PE-01 1	7.3625E-01	_	1.1023E+00 2	2.6462E-01 2	3.3235E+00 2	_	5.86746-01 5	_	1.21095+01 7		3.55376+00 6	7.1860E+01 3		6.3951E+02 6	8.0316E+02	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CROSS SECTION	H-PLANE		1.0026E+00	1.0045E+00	1.0035E+00	1.0020E+00	1.0038E+00	1.0063E+00	1.0051E+00	1.0034E+00	1.0063E+00	1.0091E+00	1.0070E+00	1.006cE+00	1.0107E+00	1.0129E+00	1.0096E+00	1.0113E+00	1.0178E+00	1.0175E+00	1.0149E+00	1.0215E+00	1.0273E+00	1.0241E+00	1.0272E+00	1.0377E+00	1.0389E+00	1.0388E+00	1.0506E+00	1.0585€+00	1.0597E+00	1.0708E+00	
۵	E-PLANE		1.0359E+00	1.0085E+00	9.5697E-01	9.85256-01	1.0448E+00	1.0110E+00	9.4225E-01	9.8474E-01	1,0594E+00	9.99996-01	9.2106E-01	1.0030E+00	1.0766E+00	9.6276E-01	9.0491E-01	1.0522E+00	1.0717E+00	8.9106E-01	9.3065E-01	1,1234E+00	9.9527E-01	8.2146E-01	1.0461E+00	1.13865+00	8.2502E-01	8.7336E-01	1.2098E+00	9.6070E-01	7.0280E-01	1.1418E+00	
Č	ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE		1.0044E+00	1.0045E+00	1.0044E+00	1.0033E+00	1.0011E+00	9.9907E-01	9.9848E-01	9.997CE-01	1.0015E+00	1.0020E+00	1.0008E+00	9.9937E-01	9.9926E-01	1.0005E+00	1.0018E+00	1.0013E+00	1.0001E+00	9.9993E-01	1.0010E+00	1.0019E+00	1.0012E+00	1.0001E+00	1.0005E+00	1.0021E+00	1.0024E+00	1.001CE+00	1.00C5E+C0	1.0021E+00	1.0033E+00	1.0022E+00	1.0010E+00
NORMAL IZED	E-PLANE			1.0042E+00	1.0024E+00	9.97536-01	9.9224E-01	9.9289E-01	1.0017E+00	1.0113E+00	1.0103E+00	9.9745E-01	9.85835-01	9.8991E-01	1.00700+00	1.0169E+00	1.00598+00	9.8725E-01	9.86305-01	1.0053E+00	1.0167E+00	1.0014E+00	9.8137E-01	9.89965-01	1.0172E+00	1.0187E+00	9.3768E-01	9.7447E-61	1.0030E+00	1.02805+00	9.98385-01	9.6542E-01	9.9357E-01
	ANGLE	1	o o	0	4.0	0.9	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	46.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

CONTRACTOR OF THE CONTRACTOR O

KA=28.2

SS SECTION H-PLANE		1.0831E+00	1.0916E+00	1.1047E+00	1.11886+00	1.1354E+00	1.1643E+00	1.1768E+00	1.1963E+00	1.2621E+00	1.2774E+00	1.2836E+00	1.4243E+00	1.4623E+00	1.41546+00	1.7064E+00	1.8302E+00	1.6286E+00	2.2477E+00	2.6689E+00	2.0136E+00	3.4866E+00	5.1131E+00	2.8866E+00	7.4738E+00	1.6819E+01	6.7586E+00	3.644BE+01	2.5311E+02	6.2090E+02	8.1455E+02	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.2541E+00	7.0592E-01	7.98955-01	1.3762E+00	8.5070E-01	5.4416E-01	1.3818E+00	1.1459E+00	3.4030E-01	1.2416E+00	1.5375E+00	2.7975E-01	9.50196-01	2.0119E+00	5.05176-01	5.36595-01	2.5502E+00	1.3312E+00	1.5336E-01	3.1230E+00	_	6.82575-01	3.5893E+00	1.2007E+01	1.0072E+01	3.2497E+00		3.0755E+02	_	8.1455E+02	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
IOSS SECTION H-PLANE		1.0016E+00	1.0039E+00	1.0045€+00	1.0025E+00	1.0027E+00	1.0057E+00	1.0062E+00	1.00388+00	1.0048E+00	1.0087E+00	1.0084E+00	1.0059E+00	1.0089E+00	1.0132E+00	1.0111E+00	1.0101E+00	1.0163E+00	1.0189E+00	1.0154E+00	1.0193E+00	1.0272E+00	1.0258E+00	1.0257E+00	1.0360E+00	1.0404E+00	1.0387E+00	1.0483E+00	1.0588E+00	1.0602E+00	1.0690E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.0203E+00	1.0320E+00	9.75546-01	9.5928E-01	1.0236E+00	1.0398E+00	9.63536-01	9.5067E-01	1.0398E+00	1.0408E+00	9.3621E-01	9.5515E-01	1.0712E+00	1.0177E+00	8.9616E-01	9.9423E-01	1.1007E+00	9.4529E-01	8.7831E-01	1.0842E+00	1.0697E+00	8.3192E-01	9.5881E-01	1.1692E+00	9.0599E-01	7.9723E-01	1.161BE+00	1.0715E+00	6.9181E-01	1.0267E+00	
ANGLE	-	62.0	64.0	66.0	68.0	70.0	72.0	74.0	0.94	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION		9.8107E-01	9.8387E-01	9.9072E-01	9.9797E-01	1.0022E+00	1.0025E+00	1.0006E+00	9.9920E-01	9.9960E-01	1.0009E+00	1.0014£+00	1.0005E+00	9.9953E-01	9.9984E-01	1.0011E+00	1.0018E+00	1.0009E+00	9.9974E-01	1.0001E+00	1.0015E+C0	1,0019E+00	1.000BE+00	1.0001E+00	1.0012E+00	1.0025E+00	1.0019E+00	1.0006E+00	1.0011E+00	1.0030E+00	1.0031E+00	1.0014E+00
NORMALIZED C E-PLANE		9.81075-01						9.89565-01	9.9531E-01	1.0066E+00	1.0088E+00	9.98606-01	9.8942E-01	9.95225-01	1.0102E+00	1.0135E+00	9.97725-01	9.8278E-01	9.91185-01	1.01326+00	1.0163E+00	9.9371E-01	9.8013E-01	9.9973E-01	1.0221E+00	1.0068E+00	9.7560E-01	9.8358E-01	1.0215E+00	1.0211E+00		•
ANGLE	1	0.0	5.0	0.4	9	6	10.0	12.0	0.4	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	4.0	46.0	48.0	20.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

Corpor Issuer assessed by the second of the

KA=28.4

NORMALIZED CROSS SECTION	N-FLANE		1.0819E+00	1.09146+00	1.10376+00	1.1184E+00	1.1332E+00	1.1625E+00	1.1791E+00	1.1920E+00	1.2567E+00	1.2846E+00	1.2782E+00	1.4104E+00	1.4774E+00	1.4112E+00	1.6757E+00	1.8575E+00	1.6311E+00	2.1828E+00	2.7164E+00	2.036BE+00	3.3441E+00	5.1972E+00	2.9763E+00	7.1031E+00	1.6967E+01	7.1749E+00	3.4800£+01	2.5207E+02	6.2722E+02	8.2602E+02	
NORMALIZED	E-PLANE		1.2905E+00	8.1754E-01	6.8508E-01	1.3314E+00	1.0155E+00	4.8412E-01	1.2560E+00	1.30056+00	3.62516-01	1.0573E+00	1.6475€+00	3.9247E-01	7.4593E-01	2.0385E+00	6.956E-01	3.6286E-01	2.4633E+00	1.5615E+00	7.65:81-02	2.9029E+00	3.9001E+00	8.05598-01	3.2408€+90	1.1874E+01	1.0598E+01	2.9908E+00	6.7463E+01	3.0715E+02	6.5330E+02	8.2602E+02	
	ANGLE		122.0	124.0	126.0	128 0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
HORMALIZED CROSS SECTION	H-PLANE		1.00125+00	1.0028E+00	1.0048E+00	1.0036E+00	1.0022E+00	1.0045E+00	1.0067E+00	1.0049E+00	1.0039£+00	1.0075E+00	1.0094E+00	1.0067E+00	1.0074E+00	1.0126E+00	1.0127E+00	1.0099E+00	1.0143E+00	1.0196E+00	1.0168E+00	1.0175E+00	1.0261E+00	1.0276E+00	1.0252E+00	1.0337E+00	1.0413E+00	1.0394E+00	1.0460E+00	1.0583E+00	1.0610E+00	1.0675€+00	
NORMALIZED C	E-PLANE		9.9294E-01	1.0370E+00	1.0053E+00	9.5330E-01	9.9041E-01	1.0481E+00	9.9983E-01	9.37845-01	1.0019E+C0	1.0621E+00	9.7466E-01	9.2344E-01	1.0367E+00	1.0626E+00	9.2079E-01	9.3628E-01	1.0937E+00	1.0121E+00	8.5920E-01	1.0182E+00	1.1203E+00	8.8135E-01	8.78776-01	1.1556E+00	1.0019E+00	7.5991E-01	1.0775E+00	1.1624E+00	7.30156-01	9.0343E-01	
•	ANGLE		62.0	64.0	0.99	0.89	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	98.0	90.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION	H-PLANE	, , , , , , , , , , , , , , , , , , , ,	9.7717E-01	9.7989E-01	9.8693E-C1	9.95336-01	1.0017E+00	1.0038E+00	1.0023E+00	9.9966E-01	9.9850E-01	9.99538-01	1.0012E+00	1.0016E+00	1.0006E+00	9.9962E-01	1.0001E+00	1.0013E+00	1.0015E+00	1.0004E+00	9.9976E-01	1.0007E+00	1.0019E+00	1.0017E+00	1.0004E+00	1.0004E+00	1.00:9E+00	1.0325E+00	1.0013E+00	1.0006E+00	1.0021E+00	1.0035E+00	1.0024E+00
NORMALIZED (E-PLANE		9.77176-01	9.8528E-01	1.0038E+00	1.0190E+00	1.0189E+00	1.00375+00	9.8725E-01	9.8478E-01	9.98265-01	1.01305+00	1.0123E+00	9.9727E-01	9.87176-01	9.9536E-01	1.0106E+00	1.01035+00	9.9306E-01	9.84316-01	1.0001E+00	1.0186E+00	1.0095E+00	9.83726-01	9.82645-01	1.0108E+00	1.02116+00	9.92146-01	9.7274E-01	1.0018E+00	1.0302E+00	1.0016E+00	9.6452E-01
:	ANGLE	•	0.0	0.	4.0	0.0	9.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	4c.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	36.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=28.6

ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED C E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMAL 1 ZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10-11-10-0	0011111111	1 0 0	00131960	00144000
9.0	9.95935-01	9.45938-01	0.50	00.00.00.0	00190100	22.5	00-110/2-0	00110000
7	9.95235-01	9.95885-01	2.6	1.02136+00	00.100.00	2.0	10-35-56	00.1000.
4 0.	9.9863E-01	9.9617E-01	0.99	1.0308E+00	1.0042E+00	126.0	6.1015E-01	1.1023E+00
9 .0	1.0041E+00	9.9753E-01	68.0	9.7002E-01	1.0046E+00	128.0	1.2403E+00	1.1181E+00
9.0	1.0088E+00	9.9982E-01	10.0	9.6163E-01	1.0026E+00	130.0	1.1621€+00	1.1314E+00
10.0	1.0067E+00	1.0018E+00	72.0	1.0323E+00	1.0032E+00	132.0	4.7621E-01	1.1600E+00
12.0	9.9725E-01	1.0021E+00	74.0	1.0341E+00	1.0063E+00	134.0	1.1020E+00	1.1813E+00
14.0	9.8893E-01	1.0007E+00	76.0	9.5129E-01	1.0062E+00	136.0	1.4220E+00	1.1892E+00
16.0	9.9229E-01	9.9915E-01	78.0	9.6216E-01	1.00396+00	138.0	4.3512E-01	1.2497E+00
18.0	1.0059£+00	9.9902E-01	80.0	1.0551E+00	1.0060E+00	140.0	8.6871E-01	1.2910E+00
20.0	1.0147E+00	1.0004E+00	82.0	1.0204E+00	1.0096E+00	142.0	1.7114E+00	1.2759E+00
22.0	1.0067E+00	1.0017E+00	84.0	9.19756-01	1.0081E+00	144.0	5.4210E-01	1.3945£+00
24.0	9.8983E-01	1.0015E+00	86.0	9.8682E-01	1.0065E+00	146.0	5.5916E-01	1.4900E+00
26.0	9.85226-01	1.0001E+00	88.0	1.0815E+00	1.0111E+00	148.0	2.0179E+00	1.4125E+00
28.0	1.0001E+00	9.9945E-01	90.0	9.69756-01	1.0138E+00	150.0	9.0287E-01	1.6428E+00
30.0	1.0151E+00	1.0003E+00	92.0	8.9781E-01	1.0107E+00	152.0	2.2116E-01	1.8797E+00
32.0	1.0085E+00	1.0015E+00	94.0	1,0538E+00	1.0124E+00	154.0	2.3399E+00	1.6422E+00
34.0	9.89C3E-01	1.0013E+00	96.0	1.0708E+00	1.0191E+00	156.0	1.7867E+00	2.1161E+00
36.0	9.8668E-01	1.0002E+00	98.0	8.78535-01	1.0185E+00	158.0	3.5408E-02	2.7543E+00
38.0	1.0070E+00	1.0000E+00	100.0	9.4464E-01	1.0166E+00	160.0	2.6671E+00	2.0728E+00
40.0	1.0179E+00	1.9012E+00	102.0	1,1339E+00	1.0242E+00	162.0	4.0590E+00	3.2015E+00
42.0	9.9841E-01	1.0020E+00	104.0	9.56485-01	1.0289E+00	164.0	9.53906-01	5.2640E+00
44.0	9.7789E-01	1.0012E+00	106.0	8.2545E-01	1.0257E+00	166.0	2.9075E+00	3.0855E+00
46.0	9.9285E-01	1.0002E+00	108.0	1.1015E+00	1.0314E+00	168.0	1.1709E+01	6.7373E+00
48.0	1.0215E+00	1.0009E+00	110.0	1.0914E+00	1.0413E+00	170.0	1.1117E+01	1.7081E+01
50.0	1.0130E+00	1.0024E+00	112.0	7.6863E-01	1.0407E+00	172.0	2.8031E+00	7.6213E+00
52.0	9.7845E-01	1.0022E+00	114.0	9.7407E-01	1.0442E+00	174.0	6.5276E+01	3.3165E+01
54.0	9.8077E-01	1.0008E+00	116.0	1.2165E+00	1.0572E+00	176.0	3.0667E+02	2.5096E+02
56.0	1.0205E+00	1.0012E+00	118.0	8.1036E-01	1.0620E+00	178.0	6.6018E+02	6.3353E+02
58.0	1.0231E+00	1.00316+00	120.0	7.9249E-01	1.0664E+00	180.0	8.3757E+02	8.3757E+02
60.0	9.7691E-01	1.0033E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

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BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=28.8

NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.0789E+00	1.0908E+00	1.10196+00	1.1177E+00	1.1302E+00	1.1569E+00	1.1831E+00	1.1880E+00	1.2418E+00	1.2960E+00	1.2767E+00	1.3775E+00	1.4993E+03	1.4189E+00	1.6090E+00	1.8956E+00	1.6613E+00	2.0493E+00	2.7816E+00	2.1208E+00	3.0607E+00	5.3129E+00	3.2126E+00	6.3786E+00	1.71635+01	8.0958E+00	3.1604E+01	2.4978E+02	6.3981E+02	8.4920E+02	
NORMALIZED C E-PLANE	1 1 1 1 1 1 1 1 1 1 1 1 1	1.2136E+00	1.0812E+00	5.8386E-01	1.1149E+00	1.2835E+00	5.2072E-01	9.35558-01	1.5022E+00	5.51596-01	6.90076-01	1.7255E+00	7.1910E-01	3.99916-01	1.95146+00	1.11786+00	1,1639E-01	2.1841E+00	2.0007E+00	3.0525E-02	2.4200E+00	4.1924E+00	1.1254E+00	2.5909E +00	1.1515E+01	1.1626E+01	2.6591E+00	6.3100E+01	3.0612E+02	6.6705E+02	8.4920E+02	
ANGLE	1 1 1 1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE		1.0025E+00	1.0014E+00	1.0032E+00	1.0050E+00	1.0036E+00	1.0025E+00	1.0053E+00	1.0070E+00	1.0048E+00	1.0048E+00	1.0089E+00	1.0094E+00	1.0067E+00	1.0093E+00	1.0141E+00	1.0121E+00	1.0112E+00	1.0178€+00	1.0200E+00	1.0167E+00	1.0220E+00	1.0293E+00	1.0270E+00	1.0294E+00	1.0404E+00	1.0422E+00	1.0430E+00	1.0554E+00	1.0628E+00	1.0659E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		9.6242E-01	9.9441E-01	1.0392E+00	1.0004E+00	9.5097E-01	1.0003E+00	1.0504E+00	9.8435E-01	9.3768E-01	1.0234E+00	1.0550£+00	9.4513E-01	9.4053E-01	1.0683E+00	1,0258E+00	8.9143E-01	9.9442E-01	1.1036E+00	9.2996E-01	8.8431E-01	1.1074E+00	1.0375E+00	8.1141E-01	1.0201E+00	1.1546£+00	8.2085E-01	8.7220E-01	1.2241E+00	9.17706-01	7.1208E-01	
ANGLE	1 1 1 1	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	90.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.01866+00	1.0157E+00	1.0090E+00	1.0021E+00	9.9837E-01	9.9845E-01	1.0004E+00	1.0015E+00	1.0009E+00	9.9973E-01	9.9961E-01	1.0007E+00	1.0015E+00	1.0009E+00	9.9975E-01	9.99695-01	1.0009E+00	1.0018E+00	1.0011E+00	9.9998E-01	1.0034E+00	1.0017E+00	1.0019£+00	1.0007E+00	1.0003E+00	1.0018E+00	1.0027E+00	1.0015E+00	1.0007E+00	1.0022E+00	1.0036£+00
NORMALIZED C E-PLANE		1.0186E+00	1.0107E+00	9.94748-01	9.85846-01	9.9149E-01	1.0045E+00	1.0103E+00	1.0032E+00	9.9299E-01	9.9350E-01	1.0045E+00	1.010GE+00	1.0014E+00	9.8798E-01	9.9032E-01	1.0081E+00	1.0166E+00	1.00126+00	9.83056-01	9.9065E-01	1.0137E+00	1.0141E+00	9.88376-01	9.8002E-01	1.0075E+00	1.02456+00	9.9652E-01	9.7105E-01	9.9825E-01	1.0302E+00	1.0014E+00
ANGLE	1 1 1 1	o. 0	9.0	4.0	0.9	0.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	98.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

MARIE STATE OF THE
KA=29.0

CROSS SECTION	H-PLANE		1.0773E+00	1.0903E+00	1.1010E+00	1.1172E+00	1.1294E+00	1.1535E+00	1.1842E+00	1.1883E+00	1.2335E+00	1.2990E+00	1.2804E+00	1.3604E+00	1.5048E+00	1.4300E+00	1.5757E+00	1.9048E+00	1.6874E+00	1.9844E+00	2.7976E+00	2.1792E+00	2.9239E+00	5.3433E+00	3.3559E+00	6.0291E+00	1.7212E+01	8.5962E+00	3.0059E+01	2.4854E+02	6.4609E+02	8.6091E+02	
٥	E-PLANE		1.1133E+00	1.1947E+00	6.0926E-01	9.71586-01	1.3656E+00	6.1230E-01	7.7353E-01	1.5316E+00	7.0178E-01	5.3479E-01	1.6890E+00	9.1231E-01	2.7661E-01	1.8426E+00	1.3310E+00	5.2037E-02	2.0009E+00	2.19785+00	6.15596-02	2.1650E+00	4.2982E+00	1.3176E+00	2.2933E+00	1.1291E+01	1.2123E+01	2.5668E+00	6.0938E+01	3.0549E+02	6.7390E+02	8.6091E+02	
	ANGLE]	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE		1.0034E+00	1.0017E+00	1.0021E+00	1.0047E+00	1.0047E+00	1.0027E+00	1.0040E+00	1.0070E+00	1.0061E+00	1.0043E+00	1.0075E+00	1.0102E+00	1.0077E+00	1.0079E+00	1.0133E+00	1.0137E+00	1.0109E+00	1.0158E+00	1.0209E+00	1.0178E+00	1.0199E+00	1.0288E+00	1.0287E+00	1.0281E+00	1.0386E+00	1.0435E+00	1.0427E+00	1.0533E+00	1.0633E+00	1.0659E+00	
NORMALIZED CROSS SECTION	E-PLANE		9.7556E-01	9.7007E-01	1.0261E+00	1.0267E+00	9.6304E-01	9.6729E-01	1.0418E+00	1.0221E+00	9.38816-01	9.8091E-01	1.0649E+00	9.8933E-01	9.1525E-01	1.0284E+00	1,0693E+00	9.1865E-01	9.3494E-01	1.100BE+00	9.9772E-01	8.5392E-01	1.0485E+00	1.1036E+00	8.3944E-01	9.3077E-01	1.1781E+00	9.0500E-01	7.9208E-01	1.1846E+00	1.0329E+00	6.75186-01	
	ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
DRMALIZED CROSS SECTION	H-PLANE		1.0230E+00	1.0202E+00	1.01305+00	1.0046E+00	9.98585-01	9.970CE-01	9.9880E-01	1.0013E+00	1.0021E+00	1.0009E+00	9.99465-01	9.99505-01	1.0007E+00	1.0014E+00	1.0007E+00	9.9979E-01	1.0001E+00	1.0014E+00	1.0016E+00	1.0005E+00	9.9990E-01	1.0009E+00	1.0020E+00	1.0015E+00	1.0004E+00	1.0009E+00	1.0025E+00	1.0024E+00	1.0010E+00	1.0012E+00	1.0032E+00
NORMAL 1 ZED C	E-PLANE	• • • • • • • • • • • • • • • • • • • •	1.0230E+00	1.01466+00	9.9602E-01	9.81885-01	9.8345E-01	9.9906E-01	1.0141E+00	1.0139L+00	9.9928E-01	9.8692E-01	9.91215-01	1.00635+00	1.0122E+00	1.0006E+00	9.8822E-01	9.9453E-01	1.01150+00	1.0120E+09	9.92116-01	9.8184E-01	1.3003E+00	1.01986+00	1.0062E+00	9.80165-01	9.8840E-01	1.0195E+00	1.0157£+00	9.78606-01	9.7726E-01	1.0196E+00	1.0241E+00
	ANGLE		o. o	9.0	4.0	9.0	0.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	e0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

desert everyone of a constant constant visitation in the constant.

KA=29.2

ISS SECTION H-PLANE	00720270	1.0897E+00	1.1002E+00	1.1165E+00	1.1291E+00	1.1501E+00	1.1843E+00	1.1900E+00	1.2254E+00	1.2997E+00	1.2866E+00	1.3440E+00	1.5059E+00	1.4450E+00	1.5442E+00	1.9067E+00	1.7194E+00	1.9228E+00	2.8020E+00	2.2468E+00	2.7930E+00	5.3547E+00	3.5136E+00	5.6911E+00	1.7227E+01	9.1205E+00	2.8552E+01	2.4723E+02	6.5234E+02	8.7270E+02	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	0 0 0 0 0	1.2733E+00	6.8232E-01	8.2850E-01	1.3994E+00	7.40556-01	6.3173E-01	1.5089E+00	8.7279E-01	4.1437E-01	1.6050E+00	1.1096E+00	1.9565E-01	1.6968E+00	1.5335E+00	3.0067E-02	1.7961E+00	2.3725E+00	1.2740E-01	1.9094E+00	4.3749E+00	1.5279E+00	2.0165E+00	1.10416+01	1.2606E+01	2.5253E+00	5.8791E+01	3.0478E+02	6.8075E+02	8.7270E+02	
ANGLE		124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE	00190000	1.0026E+00	1.0016E+00	1.0037E+00	1.0053E+00	1.0035E+00	1.0030E+00	1.0062E+00	1.0071E+00	1.0047E+00	1.0060E+00	1.0101€+00	1.0091E+00	1.0072E+00	1.0118€+00	1.0148E+00	1.0116E+00	1.0139E+00	1.0207E+00	1.0194E+00	1.0186E+00	1.0273E+00	1.0303E+00	1.0278E+00	1.0365E+00	1.0443E+00	1.0431£+00	1.0512E+00	1.0631E+00	1.0663E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	100000	9.6108E-01	9.9872E-01	1.0408E+00	9.9154E-01	9.4918E-01	1.0128E+00	1.0478E+00	9.6473E-01	9.4557E-01	1.0469E+00	1.03486+00	9.19988-01	9.7657E-01	1.0854E+00	9.6969E-01	8.9429E-01	1.0637E+00	1.0615E+00	8.6153E-01	9.73596-01	1,1379E+00	9.0209E-01	8.54436-01	1,15726+00	1,0031E+00	7.4938E-01	1.1060E+00	1,1357E+00	6.8743E-01	
ANGLE		64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	0.06	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	1 0 0	1.00546+00	1.0047E+00	1.0029E+00	1.0005E+00	9.98745-01	9.9874E-01	1.0003E+00	1.0017E+00	1.0015E+00	1.0001E+00	9.9917E-01	9.99858-01	1.0012E+00	1.0015E+00	1.0005E+00	9.9974E-01	1.0005E+00	1.0015E+00	1.0013E+00	1.0002E+00	1.0002E+00	1.0016E+00	1.0021E+00	1.0010E+00	1.0004E+00	1.0017E+00	1.00285+00	1.0018E+00	1.0008E+00	1.0023E+00
NORMALIZED C E-PLANE		1.00476+00				9.9491E-01			1.0060E+00		9.8661E-01		1.0129E+00	1.0120E+00	9.9494E-01		9.9786E-01	1.0140E+00		9.8658E-01	9.8702E-01	1.0113E+00	1.0188E+00			1.0021E+00	1.0246E+00	9.9870E-01	9.69916-01		1.0322E+00
ANGLE			4	0.9	9	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=29.4

NORMALIZED CROSS SECTION ANGLE E-PLANE H-PLANE	 _	1.3060E+00 1	126.0 7.9255E-01 1.0995E+00	7.0372E-01	130.0 1.3814E+00 1.1292E+00	8.9115E-01	5.24116-01 1	1.4365E+00 1	1.0501E+00 1	140.0 3.3752E-01 1.2980E+00	1.4793E+00 1	144.0 1.2988E+00 1.3293E+00	146.0 1.6102E-01 1.5026E+00	148.0 1.5214E+00 1.4628E+00	1.7154E+00 1	5.0869E-02 1	154.0 1.5762E+00 1.7559E+00	2.5201E+00 1	2.2617E-01	_	4.4214E+00	1.7537E+00	~	1.0765E+01	170.0 1.3073E+01 1.7209E+01	•••	-	176.0 3.0400E+02 2.4586E+02	178.0 6.8759E+02 6.5857E+02	
DSS SECTION H-PLANE	 1.0035E+00	1.0036E+00	1.0018E+00	1.0026E+00	1.0051E+00	1.0046E+00	1.0028E+00	1.0049E+00	1.0075E+00	1.0057E+00	1.0050E+00	1.0091E+00	1.0103E+00	1.0075E+00	1.0101E+00	1.0150E+00	1.0130E+00	1.0125E+00	1.0196E+00	1.0210E+00	1.0182E+00	1.0253E+00	1.0313E+00	1.0284E+00	1.0342E+00	1.0444E+00	1.0441E+00	1.0493E+00	1.0624E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	 1.0240E+00	9.7187E-01	9.7155E-01	1.0311E+00	1.0225E+00	9.5439E-01	9.7747E-01	1.0505E+00	1.0038E+00	9.3186E-01	1.0084E+00	1.0638E+00	9.5223E-01	9.3166E-01	1.0688E+00	1.0271E+00	8.8518E-01	1.0045E+00	1.1027E+00	9.0446E-01	9.0325E-01	1,1323E+00	9.8361E-01	8.0879E-01	1.0973E+00	1.0945E+00	7.5211E-01	1.0037E+00	1.2081E+00	
ANGLE	 62.0	64.0	99	68.0	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	9.8355E-01	9.8622E-01	9.9261E-01	9.9901E-01	1,0023E+00	1.0019E+00	1.0001E+00	9.9925E-01	1.0001E+00	1.0012E+00	1.0010E+00	9.9996E-01	9.9955E-01	1.0005E+00	1.0015E+00	1.0012E+00	1.0000E+00	9.9979E-01	1.0009E+00	1.0017E+00	1.0010E+00	1.0001E+00	1.0008E+00	1.0021E+00	1.0018E+00	1.0005E+00	1.000BE+00	1.0025E+00	1.0026E+00	
NORMALIZED C E-PLANE	9.83556-01	9.9103E-01	1.0061E+00	1.0140E+00	1.0075E+00	9.9517E-01	9.9125E-01	9.99325-01	1.0080E+00	1.0050E+00	9.9398E-01	9.91176-01	1.0027E+00	1.0131E+00	1.0053E+00	9.8802E-01	9.8684E-01	1.00595+00	1.01685+00	1.0006€ +00	9.8268E-01	9.94675-01	1.01735+00	1.0096E+00	9.8039E-01	9.8380E-01	1.0180E+00	1.0188E+00	9.7990E-01	
ANGLE	0.0	0	0.4	6.0	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=29.6

S SECTION		.0735E+00	.0877E+00	.0988E+00	.1145E+00	.1295E+00	.1442E+00	.1813E+00	.19596+00	.2119E+00	.2938£+00	3034E+00	3171E+00	.4950E+00	.4823E+00	.4916E+00	.8886E+00	.7955E+00	.8159E+00	2.7758E+00	2.4022E+00	2.5562E+00	5.3210E+00	3.8644E+00	5.0570E+00	.7158E+01	.0231E+01	2.5657E+01	2.4443E+02	6.6479E+02	8.9653E+02	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		-	_	-	6.12758-01 1.	1.314!E+00 1.	_	4.60mog-01 1.	1.32145+00 1.	1.21885+00 1.	_	1.3209E+00 1.	1.46P2E+00 1.	1.7416E-01 1.		_	_	_	_				1.9920E+00 5.	_	_	_	_	_		6.9441E+02 6.	8.9653E+02 8.	
ANGLE		122.0	124.0	126.0	128.0	130.9	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0				176.0	178.0	180.0	
CROSS SECTION H-PLANE	1	1.0028E+00	1.0040E+00	1.0026E+00	1.0019E+00	1.0043E+60	1.0054E+00	1.0034E+00	1.0037E+00	1.0071£+00	1.0070E+00	1.0048E+00	1.0076E+00	1.0109E+00	1.0085E+00	1.0036E+00	1.0143E+00	1.0145E+00	1.0120E+00	1.0178E+00	1.0221E+00	1.0188E+00	1.0231E+00	1.0314E+00	1.0297E+00	1.0323E+00	1.0436E+00	1.0455E+00	1.0479E+00	1.0611E+00	1.0675E+00	
MORMALIZED CR E-PLANE		1,0328E+00	9.9654E-01	9.5888E-01	1.0052E+00	1.0409E+00	9.7995E-01	9.5188E-01	1.02926+00	1.0387E+00	9.44886-01	9.6525E-01	1,0653E+00	9.9942E-01	9.0975E-01	1.0260E+00	1.0716E+00	9.1013E-01	9.4185E-01	1,1097E+00	9.7016E-01	8.56425-01	1,0899E+00	1.0638E+00	8.0404E-01	1,0123E+00	1,1600E+00	7.99065-01	8.9695E-01	1.2377E+00	8.4103E-01	
ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ZED CROSS SECTION TE H-PLANE	,	9.7852E-01	9.81346-01	9.88185-01	9.9663E-01	1.0022F+C0	1.0035E+00	1.0015E+00	9.9915E-01	9.987RE-01	1.0002E+00	1.0014E+00	1.0011E+00	9.9997E-01	9.9972E-01	1.0007E+00	1.0014E+00	1.000BE+00	9.9984E-01	1.0002E+00	1.0015E+00	1.0017E+03	1.0005E+00	1.0002E+00	1.0014E+00	1.0022E+00	1.0012E+00	1.0004E+00	1.0017E+00	1.0030E+00	1.0019E+00	1.0010E+00
NORMALIZED C E-PLANE	1111111	9.7852E-01	,	1.00530+00	1.0187E+60	1.01575+50	9.99528-01	9.8611E-01	9.8875E-01	1.0038E+00	1.0135E+00	1.0061E+03	9.91736-01	9.9025E-01	1.0037E+00	1.0117E+00	1.0005E+00	9.8653E-01	9.9358E-01		1.01335+00				1.0198E+00	9.96645-01	9.7605E-01	1.0001E+00	1.0265E+00	1.0007E+00	1	9.57636-01
ANGLE	1	0.0	9.0	4.0	0.9	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	26.0	59.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

COMPANY CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR

KA±29.8

i	NORMALIZED (EU CROSS SECTION	U ()	NORMALIZED C	NORMALIZED CROSS SECTION	S I CNA	NORMALIZED (NORMALIZED CROSS SECTION
ANGLE	E F F F F F F F F F F F F F F F F F F F	111777111111111111111111111111111111111	1 1 1 1 1 1			11000		
0.0		9.9483E-01	62.0	1.0230E+00	1.0016E+00	122.0	6.8604E-01	1.0729E+00
0.7	9.95788-01	9.95018-01	64.0	1.0219E+00	1.0037E+00	124.0	1.224'E+00	1.0865E+00
4.0	9.99536-01	9.9588E-01	0.99	9.6658E-01	1.0036E+00	126.0	1.0600E+00	1.0982E+00
9.0	1.00565-00	9.97H3E-01	68.0	9.7645E-01	1.0019E+00	128.0	5.66495-01	1.11335+00
8.0		1.0003E+00	70.0	1.0380E+00	1.0031E+00	130.0	1.20ACE+00	1.1298E+00
10.0		1.0020E+00	72.0	1,0132E+00	1.0056E+00	132.0	1.1927E+00	1.14216+00
12.0		1.0017E+00	74.0	9.4739E-01	1.0045E+00	134.0	4.4820E-01	1.1783E+00
14.0		1.0001E+00	16.0	9.9380E-01	1.0031E+00	136.0	1.1747E+00	1.1993E+00
16.0		9.9896E-01	78.0	1,0546E+00	1.0060E+00	138.0	1.3650E+00	1.2074E+00
18.0		9.9949E-01	80.0	9.7870E-01	1.0079E+00	140.0	3.3231E-01	1.2875E+00
20.0		1.0010E+00	82.0	9.3496E-01	1.0054E+00	142.0	1.1402E+00	1.3126E+00
22.0	9.38896-01	1.0016E+00	84.0	1.0394E+00	1.0062E+00	144.0	1.6075E+00	1.3079E+00
24.0	9.8636E-01	1.0007E+00	86.0	1.0438E+00	1.0106E+00	146.0	2.3393E-01	1.4834E+00
26.0	9.9227F-01	9.9960E-01	88.0	9.1848E-01	1.0099E+00	148.0	1.1172E+00	1.5024E+00
28.0	1.0093E+00	9.99818-01	90.0	9.7255E-01	1.0080E+00	150.0	1.99.105+00	1.4723E+00
30.0		1.0010E+00	92.0	1.0889E+00	1.0129E+00	152.0	2.1453E-01	1.8692E+00
32.0		1.0014E+00	94.0	9.6064E-01	1.0157E+00	154.0	1.1194E+00	1.8366E+00
34.0		1.0005E+00	96.0	8.9509E-01	1.0125E+00	156.0	2.7193E+00	1.7731E+00
36.0		9.9991E-01	98.0	1.0811E+00	1.0158E+00	158.0	5.11485-01	2.7457E+00
38.0	1.0158E+00	1.0007E+00	100.0	1.0397E+00	1.0224E+00	160.0	1.1697E+00	2.4865E+00
40.0	1.0044E+00	1.0017E+00	102.0	B.4530E-01	1.0202E+00	162.0	4.4219E+00	2.4534E+00
42.0	9.8219E-01	1.0013E+00	104.0	1.0194E+00	1.0213E+00	164.0	2.2390E+00	5.2763E+00
44.0	9.89306-01	1.0002E+00	106.0	1.1230E+00	1.0306E+00	166.0	1.32HPE+00	4.0533E+00
46.0		1.0005E+00	108.0	8.4061E-01	1.0313E+00	168.0	1.01-13E+01	4.7646E+00
48.0	1.0144E+00	1.0020E+00	110.0	9.2122E-01	1.0311E+00	170.0	1.3948E+01	1.7074E+01
50.0	9.83116-01	1.002CE+00	112.0	1.1864E+00	1.C421E+00	172.0	2.6930E+00	1.0813E+01
52.0	9.8187E-01	1.0007E+00	114.0	8.8027E-01	1.0467E+00	174.0	5.2462E+01	2.4271E+01
54.0	1.0173E+00	1.0009E+00	116.0	8.0588E-01	1.0472E+00	176.0	3.0222E+02	2.4294E+02
58.0	1.0198E+00	1.0026E+00	118.0	1.2198E+00	1.0593E+00	178.0	7.0122E+02	6.7098E+02
58.0		1.0027E+00	120.0	9.5581E-01	1.0680E+00	180.0	9.0856E+02	9.0856E+02
60.0	9.75516-01	1.0013E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=30.0

ISS SECTION	H-PLANE		1.0726E+00	1.0852E+00	1.0977E+00	1.1119E+00	1.1299E+00	1.1407E+00	1.1745E+00	1.2023E+00	1.2047E+00	1.2795E+00	1.3212E+00	1.3022E+00	1.4685E+00	1.5219E+00	1.4586E+00	1.8439E+00	1.8777E+00	1.7388E+00	2.7053£+00	2.5727E+00	2.3628E+00	5.2139E+00	4.2485E+00	4.4907E+00	1.6958E+01	1.1410E+01	2.2929E+01	2.4138E+02	6.7715E+02	9.2067E+02	
NORMALIZED CROSS SECTION	PLANE		6.5660E-01	1.1226E+00	1.1808E+00	5.7089E-01	1.0702E+00	1.3112E+00	4.8652E-01	1,0099E+00	1.4736E+00	4.0340E-01	9.5170E-01	1.7084E+00	3.3652E-01	9.0805E-01	2.0772E+00	3.5056E-01	8.9679E-01	2.7658E+00	6.90725-01	9.4751E-01	4.3750E+00	2.4940E+00	1.1521E+00	9.8014E+00	1.4353E+01	2.8421E+00	5.0397E+01	3.0121E+02	7.0802E+02	9.2067E+02	
	ANGLE	111111	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ADSS SECTION	H-PLANE		1.0011E+00	1.0029E+00	1.0342E+03	1.0026E+00	1.0023E+00	1.0050E+00	1.0055E+00	1.0034E+00	1.0047E+00	1.0080E+00	1.0066E+00	1.0054E+00	1.0095E+00	1.01116+00	1.0082E+00	1.0111E+00	1.0161E+00	1.0137E+00	1.0142E+00	1.0217E+00	1.0218E+00	1.0203E+00	1.0290E+00	1.0328E+00	1.0367E+00	1.0400E+00	1.0476E+00	1.0472E+00	1.0574E+00	1.0682E+00	
NORMALIZED CROSS SECTION	E-PLANE		1.0004E+00	1.0344E+00	9.9100E-01	9.5896E-01	1.0153E+00	1.0381E+00	9.6561E-01	9.50295-01	1.0451E+00	1.0190E+00	9.2360E-01	9.9674E-01	1.0689E+00	9.5422E-01	9.2714E-01	1.0735E+00	1.0200E+00	8.78295-01	1,0256E+00	1.0934E+00	8.7225E-01	9.4200E-01	1.1470E+00	9.0936E-01	8.4428E-01	1.1685E+00	9.7922E-01	7.4732E-01	1,1582E+00	1.0713E+00	
	ANGLE	!!!!!	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION	E-PLANE H-PLANE	111111111	1.0161E+00	1.0134E+00	1.0072E+00	1.0012E+00	9.98395-01	9.9902E-01	1.000BE+00	1.0013E+00	1.0004E+00	9.99558-01	1.000CE+00	1.00116+00	1,0012E+00	1.0002E+00	9.5958E-01	1.0003E+00	1.0014E+C0	1.0013E+00	1.0002E+60	1.0001E+00	1.0012E+00	1.0017E+00	1.00JRE+00	1.0002E+00	1.0013E+00	1.0023E+00	1.0014E+00	1.0006E+00	1.0018E+00	1.0031E+00	1.0020E+00
NORMAL 12ED C	E-PLANE		1.01615+00	•	9.9.295-01	9.87715-01	9.94695-01	1.0060 + 00	1.0082£+00	9.394901	9.9253E-01	9.3770E-01	1.007-3E+00	1.00725+00	9.94415-01	9.87346-01	9.9984E-U1	1.01435+00	1.0081E+00	9.88635-01	9.86766-01	1.0072E+00	1.01540+00	9.94916-01	9.81135-01	1.0023E+00	-				1.02655+00	9.99745-61	9.67136-01
	ANGLE	1	0.0	5.0	0.4	6.0	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	23.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

では、このではないとしている。

KA=30.2

DSS SECTION	H-PLANE		1.0727E+00	1.0839E+00	1.0971E+00	1.1105E+00	1.1299E+00	1.1401E+00	1.1702E+00	1.2C46E+00	1.2039E+00	1.2702E+00	1.3285E+00	1.3000E+00	1.4509£+00	1.5396E+00	1.4509E+00	1.8134E+00	1.9173E+00	1.7136E+00	2.6555E+00	2.6568E+00	2.2856E+00	5.1346E+00	4.4476E+00	4.2370E+00	1.6812E+01	1.2020E+01	2.1631E+01	2.3976E+02	6.8330E+02	9.3286E+02	
NORMALIZED CROSS SECTION	E-PLANE		6.75756-01	9.9927E-01	1.2705E+00	6.2427E-01	9.2289E-01	1.3903E+00	5.7161E-01	8.4236E-01	1.5445E+00	5.1702E-01	7.6631E-01	1.7649E+00	4.7616E-01	7.0767E-01	2.1181E+00	5.1594E-01	6.87335-01	2.77/19E+00	8.89255-01	7.4398E-01	4.3002E+00	2.7515E+00	1.0032E+00	9.4419E+00	1.4734E+01	3.0354E+00	4.8358E+01	3.0014E+02	7.1480E+02	9.3286E+02	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
IOSS SECTTON	H-PLANE		1.0013E+00	1.0020E+00	1.0041E+00	1.0036E+00	1.0021E+00	1.0039E+00	1.0059E+00	1.0042E+00	1.0038E+00	1.0073E+00	1.0078E+00	1.0054E+00	1.0080E+00	1.0117E+00	1.0093E+00	1.0096E+00	1.0156E+00	1.0153E+00	1.0134E+00	1.0202E+00	1.0232E+00	1.0202E+00	1.0270E+00	1.0337E+00	1.0312E+00	1.0379E+00	1.0479E+00	1.0479E+00	1.0555E+00	1.0679E+00	
NORMALIZED CROSS SECTION	E-PLANE		9.7726E-01	1.0274E+00	1.01BCE+00	9.6121E-01	9.844E-01	1.0432E+00	9.9789E-01	9.4372E-01	1.0149E+00	1.0491E+00	9.5091E-01	9.5428E-01	1,0656E+00	1.0035E+00	9.0531E-01	1.0312E+00	1.0690E+00	8.9604E-01	9.6023E-01	1,1164E+00	9.2943E-01	8.7676E-01	1.1305E+00	9.9330E-01	7.9836E-01	1.1109E+00	1.0761E+00	7.3187E-01	1.0644E+00	1.1684E+00	
	ANGLE		62.0	64.0	6.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION	JE H-PLANE		1.0216E+03	1.0187E+00	1.0114E+00	1.0034E+00	9.9820E-01	9.9740E-01	9.9955E-01	1.3017E+00	1.0017E+00	1.0002E+00	9.99346-01	1.0000E+00	1.0011E+00	1.0011E+00	1.0001E+30	9.99845-01	1.0008E+00	1.0015E+00	1.0008E+00	9.9992E-01	1.0005E+00	1.0017E+00	1.0015E+00	1.0004E+00	1.0006E+00	1.0020E+00	1.0021E+00	1.0008E+00	1.0010E+00	1.0027E+00	1.0028E+00
NORMALIZED C	E-PLANE		1.0216E+00	1.0130E+00	9.94695-01	9.82365-01	9.8656E-01	1.002BE+00	1.91455+30	1.0036E+00	9.94425-01	9.8775E-01	9.97545-01	1.01005+00	1.00736-00	9.93425-01	9.9037E-01	1.0045E+00		9.9975E-01	9.8399E-01	9.9397E-01	1.0155E+00	1.0106[+00	9.8542501	9.86135-01		1.0160E+00	9.8298E-01		1.0172E+00	1.02045+00	
	ANGLE	1 1 1 1 1	0.0	2.0	0.4	0.9	0	10.0	12.0	14.0	16.0	18.0	23.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	30.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=30.4

ON NORMALIZED CROSS SECTION ANGLE E-PLANE H-PLANE		122.0 7.3993E-01 1	124.0 B.7230E-01 1	_	_	130.0 7.8138E-01 1	132.0 1.4219E+00 1	134.0 6.9449E-01	136.0 6.8722E-01 1	138.0 1.5635E+00 1	140.0 6	142.0 5.9729E-01 1		146.0 6.4453E-01 1	148.0 5.2551E-01 1	150.0 2.1153£+00 1	152.0 7.0422E-01	154.0 4.9747E-01 1	156.0 2.7464E+00	158.0 1.1017£+00	160.0 5.6250E-01	162.0 4.1955E+00	164.0 3.0090E+00	166.0 B.8302E-01	168.0 9.0667E+00 4	170.0 1.5089E+01 1	172.0 3.2713E+00	174.0 4.6346E+01	176.0 2.9899E+02		_
H-PLANE		1.0021E+00	1.0014E+00	1.00346+00	1.0043E+00	1.0025E+00	1.002BE+00	1.0056E+00	1.0053E+00	1.00356+00	1.0060E+00	1.00B5E+00	1.0062E+00	1.0067E+00	1.0113E+00	1.0107E+00	1.00895+00	1.0142E+00	1.0166E+00	1.0135E+00	1.0183E+00	1.0240E+00	1.0210E+00	1.0249E+00	1.0338E+00	1.0324E+00	1.0359£+00	1.0474E+00	1.0489E+00	1.0539E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		9.6611E-01	1,0051E+00	1.0341E+00	9.8182E-01	9.6077E-01	1.0268E+00	1.0293E+00	9.5121E-01	9.7750E-01	1.0565E+00	9.8972E-01	9.2833E-01	1.0357E+00	1.0482E+00	9.14146-01	9.7639E-01	1.0921E+00	9.4235E-01	9.0432E-01	1.1027E+00	1.0011E+00	8.4034E-01	1.0783E+00	1.0744E+00	7.9326E-01	1.0263E+00	1,1519E+00	7.6191E-01	9.5545E-01	
ANGLE		62.0	64.0	0.99	0.89	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.0064E+00	1,0061E+00	1.0048E+00	1.0026E+00	1.0000E+00	9.9857E-01	9.9911E-01	1.0008E+00	1.0017E+00	1.0010E+00	9.99588-01	9.9935E-01	1.0005E+00	1.0014E+00	1.0009E+00	9.9990E-01	1.0000E+00	1.0011E+00	1.0014E+00	1.0004E+00	1.0000E+00	1.0011E+00	1.0019E+00	1.0011E+00	1.0003E+00	1.0013E+00	1.0024E+00	1.0016E+00	1.0007E+00	
NORMALIZED C E-PLANE	1 1 1 1 1 1 1 1	1.0064E+00	1.0050E+0C	1.0006E+00	9.9446E-01	9.9174E-01	9.57255-01	1.0074E+00	1.0106E+00	1.0012E+00	9.8922E-01	9.9035E-01	1.0045E+00	1.0138E+00	1.0036E+00	9.88395-01	9.9143E-01	1.0085E+00	1.0112E+00	9.933-16-01	9.8547E-01	1.0044E+00	1.0181E+00	9.98916-01	9.7920E-01	9.97705-01	1.02156+00	1.0015E+00	9.7395E-01	9.97605-01	
ANGLE		0.0	5.0	0.4	6.0	9.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

CARLOT TOWNS IN THE PROPERTY AND DESCRIPTION OF THE PROPERTY O

KA=30.6

ROSS SECTION	H-PLANE	9 1 1 1 1 1 1	1.0733E+00	1.0817E+00	1.0959E+00	1.1079E+00	1.1285E+00	1.1408E+00	1.1616E+00	1.2057E+00	1.2076E+00	1.2505E+00	1.3368E+00	1.3060E+00	1.4118E+00	1.5661E+00	1.4536E+00	1.741BE+00	1.98605+00	1.6921E+00	2.5324E+00	2.8234E+00	2.1746E+00	4.9297E+00	4.8494E+00	3.7947E+00	1.6428E+01	1.3267E+01	1.9173E+01	2.3636E+02	6.9553E+02	9.5748E+02	
NORMALIZED CROSS SECTION	E-PLANE		8.3857E-01	7.6016E-01	1.3155E+00	8.4417E-01	6.6215E-01	1.4030E+00	8.4250E-01	5.585.25-01	1.53248+00	8.3323E-01	4.5601E-01	1.7347E+00	8.3221E-01	3.7049E-01	2.06"0E+00	9.0819E-01	3.32986-01	2.6813E+00	1.3234E+00	4.0638E-01	4.063EE+00	3.26355+00	7.9200E-01	8.67828+00	1.5418E+01	3.5480E+00	4.4365E+01	2.9776E+02	7.2831E+02	9.574BE+02	
	ANGLE	1 1 1 1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE		1.0029E+00	1.0014E+00	1.0024E+00	1.0044E+00	1.0035E+00	1.0C23E+00	1.0047E+00	1.3061E+00	1.0040E+00	1.0048E+00	1.0084E+00	1.0074E+00	1.0059E+00	1.0102E+00	1.0119E+00	1.0090E+00	1.0125E+00	1.0172E+00	1.0144E+00	1.0164E+00	1.0239E+00	1.0224E+00	1.0233E+00	1.0330E+00	1.0339E+00	1.0346E+00	1.0462E+00	1.0500E+00	1.0528E+00	1.0660E+00	
NORMALIZED CROSS SECTION	E-PLANE		9.7282E-01	9.7973E~01	1.0315E+00	1.01035+00	9.55796-01	9.9700E-01	1.0455E+00	9.7881E~01	9.4894E~01	1.0386E+00	1.0300E+00	9.2859E-01	9.9069E-01	1.0724E+00	9.5011E-01	9.2777E-01	1.0825E+00	1.0026E+00	8.7433E-01	1.0569E+00	1.06775+00	8.4172E-01	1,0037E+00	1.1322E+00	8.2952E-01	9.3272E-01	1,1917E+00	8.3118E-01	8.5062E-01	1.2497E+00	
	ANGLE	1	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ORMALIZED CROSS SECTION	H-PLANE		9.8580E-01	9.8833E-01	9.9422E-01	9.9978E-01	1.0021E+00	1.0013E+00	9.9971E-01	9.99476-01	1.0005E+00	1.0012E+00	1.0005E+00	9.9964E-01	9.9988E-01	1.0010E+00	1.0014E+00	1.0004E+00	9.9971E-01	1.0004E+00	1.0014E+00	1.0012E+00	1.0002E+00	1.0004E+00	1.0016E+00	1.0017E+00	1.0005E+00	1.0006E+00	1.0020E+00	1.0023E+00	1.0010E+00	1.0012E+00	1.0030E+00
NORMALIZED C	E-P. ANE		9.8580E-01	9.9282E-01	1.0054E+00	1.0120E+00	1.0045E+00	9.9404E-01	9.9361E-01	1.0025E+00	1.0075E+00	1.0006E+00	9.9183E-01	9.9572E-01	1.0085E+00	1.0103E+00	9.9571E-01	9.8582E-01	9.9790E-01	1.01436+00	1.0072E+00	9.8719E-01	9.8995E-01	1.0125E+00	1.0126E+00	9.8613E-01	9.82895-01	1.01325+00	1.0184E+00	9.8391E-01	9.7921E-01	1.0190E+00	1,0195E+00
	ANGLE	,	0.0	5.0	4.0	0.9	9.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	26.0	58.0	0.09

IGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=30.8

S SECTION H-PLANE		.0736E+00	.0809E+00	.0952E+00	.1069E+00	.1272E+00	.1418E+00	.1579E+00	.2043E+00	.2113E+00	.2414E+00	.3370E+00	.3134E+00	.3921E+00	.5732E+00	.4633E+00	.7033E+00	.0127E+00	.6958E+00	.4620E+00	.8984E+00	.1419E+00	1.8067E+00	. 0477E+00	1.6083E+00	.6193E+01	.3900E+01	.8015E+01	.3457E+02	.0160E+02	9.6992E+02	
D CROS	•	-	-	-	-	5.78915-01 1	_	-	<u>-</u>	1.4541E+00 1	1.01135+00 1	3.51876-01 1	1.6506E+00 1	1.0287E+00 1	_	1.9815E+00 1	1.1201E+00 1	-	2.58156+00 1	~	2.7782E-01 2	~	~	.	-	<u>-</u>	-	4.2414E+01 1		_	9.69926+02 9	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE		1.0034E+00	1.0020E+00	1.0016E+00	1.0039E+00	1.0043E+00	1.0025E+00	1.0036E+00	1.0063E+00	1.0050E+00	1.0040E+00	1.0075£+00	1.0085E+00	1.0060E+00	1.0087E+00	1.0125€+00	1.0099E+00	1.0109E+00	1.0170E+00	1.0158E+00	1.0151E+00	1.0229E+00	1.0240E+00	1.0224E+00	1.0314E+00	1.0352E+00	1.0340E+00	1.0444E+00	1.0510E+00	1.0522E+00	1.0645E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		9.9359E-01	9.6510E-01	1.0120E+00	1.0322E+00	9.7144E-01	9.6809E-01	1.0391E+00	1.0137E+00	9.4120E-01	1.0032E+00	1.0556E+00	9.5454E-01	9.4791E-01	1.0678E+00	1.0004E+00	9.0156E-01	1.0439E+00	1.0582E+00	8.7872E-01	9.9245E-01	1.1115E+00	8.7994E-01	9.2524E-01	1.1541E+00	8.98506-01	8.4986E-01	1.1881E+00	9.2618E-01	7.68376-01	1.2214E+00	
ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	0.94	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	+	9.79855-01	9.8274E-01	9.8992E-01	9.9773E-01	1.0025E+00	1.0030E+00	1.0007E+00	9.9830E-01	9.9922E-01	1.0007E+00	1.0014E+00	1.0005E+00	9.9970E~01	1.0001E+00	1.0011E+00	1.0010E+00	1.0001E+00	9.9991E-01	1.0010E+00	1.0016E+00	1.000BE+00	1.0001E+00	1.0009E+00	1.0019E+00	1.0012E+00	1.0004E+00	1.0013E+00	1.0025E+00	1.0017E+00	1.0008E+00	1.0022E+00
NORMALIZED C E-PLANE	1 1 1 1 1 1 1 1 1 1	9.79855-01	9.88348-01	1.0064E+00	1,0179E+00	1.0124E+00	9.9613E-01	9.86346-01	9.93256-01	1.0078E+00	1.0114E+00	9.9987E-01	9.8990E-01	9.9626E-01	1.0089E+00	1.006BE + 00	9.9184E-01	9.89365-01	1.0064E+00	1.0150E+00	9.9763E-01	9.82765-01	9.9853E-01	1.0176E+00	1.0021E+00	9.7940E-01	9.9644E-01	1.02305+00	1.0026E+00	9.7272E-01	9.9826E-01	1.0287E+00
ANGLE	1	0.0	5.0	9	9.0	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	4.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

The boundary of the second of

KA=31.0

S SECTION	M-PLANE	001385.00	90000	00.51.00	09446400	.1061E+00	.1255E+00	.1428E+00	.1550E+00	.2015E+00	.2157E+00	.2336E+00	3344E+00	.3229E+00	.3738E+00	.5757E+00	.4779E+00	.6647E+00	.0329E+00	.7087E+00	2.3879E+00	2.9665E+00	2.1245E+00	1.6720E+00	5.2414E+00	3.4462E+00	.5931E+01	.4536E+01	. 6905E+01	Z. 3272E+02	7.0765E+02	9.8243E+02	
O CROS	E-PLANE	•	•	- `	_ '	_	_	-	_	_	1.3357E+00 1	1.1848E+00	2.9156E-01	1.5268E+00	1.2231E+00 1	1.6844E-01	1.8567E+00	1.3319E+00	9.9047E-02	_	_		_	•	-		1.5989E+01	_				9.8243E+02 9	
	ANGLE		77.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE		1.003ZE+00	1.0029E+00	1.0015€+00	1.0029E+00	1.0047E+00	1.0033E+00	1.0028E+00	1.0057E+00	1.0061E+00	1.0040E+00	1.0062E+00	1.0091E+00	1.0068E+00	1.0073E+00	1.0122E+00	1,0113E+00	1.0099E+00	1.0159E+00	1.0173E+00	1.C147E+00	1.0212E+00	1.0253E+00	1.0224E+00	1.0294E+00	1.0362E+00	1.0342E+00	1.0424E+00	1.0515E+00	1.0522E+00	1.0627E+00	
NCRMALIZED C	E-PLANE		1.01595+00	9.6863E-01	9.8595E-01	1.0365E+00	9.9947E-01	9.53526-01	1.0135E+00	1.0404E+00	9.5732E-01	9.6545E-01	1.0566E+00	9.9581E-01	9.2341E-01	1.0367E+00	1.0473E+00	9.0611E-01	9.8905E-01	1.0920E+00	9.15565-01	9.2771E-01	1.1210E+00	9.4457E-01	8.6219E-01	1,1355E+00	9.8449E-01	7.94958-01	1.1425E+00	1.0288E+00	7.2296E-01	1,1516E+00	
	ANGLE		0.70	64.0	0.99	68.0	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE		9.93025-01	9.9433E-01	9.95746-01	9.9819E-01	1.003BE+00	1.0020E+00	1.00135+00	9.9964E-01	9.9901E-01	1.0000E+00	1.0013E+00	1.0013£+00	1.0001E+C0	9.99558-01	1.0004E+00	1.0013E+00	1.0008E+00	9.9948E-01	1.0003E+00	1.0014E+00	1.0013E+00	1.0003E+00	1.0003E+00	1.0015E+G0	1.0018E+00	1.0007E+00	1.0007E+00	1.0022E+60	1.0024E+00	1.0010E+00	1.0014E+00
NORMAL 125D C	E-PLANE		9.9392E-01	3.9550E-01	1.0005E+00	1.00685 +00	1.00856+00	1.0020:+00	9.9230E-01	10-30806.6	1.0015E+00	1.0119E+00	1.0074E+00	9.92581-01	9.87675-01	1.0010E+00	1.0127E+00	1.30405+00	9.88795-01	9.93518-01	1.01135+00	1.0995E+00	9.88376-01	9.86125-01	1.01075+00	1.0162E+00	9.88835-01	9.31725-01	1.01262+00	1.0187E+00	9.8194E-01	9.78645-01	1.0212E+00
	ANGLE	-	0.0	2.0	4.0	0	0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	56.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=31.2

CROSS SECTION		1.0734E+00	1.0799E+00	1.0934E+00	1.1055E+00	1.1236E+00	1.1437E+00	1.1530E+00	1.1975E+00	1.2203E+00	1.2275E+00	1.3290E+00	1.3337E+00	1.3577E+00	1.5732E+00	1.4964E+00	1.6275E+00	2.0459E+00	1.7302E+00	2.3116E+00	3.0260E+00	2.1225E+00	4.5274E+00	5.4287E+00	3.3090E+00	1.5644E+01	1.5174E+01	1.5845E+01	2.3082E+02	7.1368E+02	9.9502E+02	
NORMALIZED C		1.1732E+00	6.4925E-01	1.0568E+00	1.2286E+00	5.5258E-01	1.0938E+00	1.2847E+00	4.2750E-01	1.1872E+00	1.3404E+00	2.7909E-01	1.3712E+00	1.40-16E+00	1.3063E-01	1.7001E+00	1.5356E+00	3.6389E-02	2.2897E+00	1.9914E+00	1.1134E-01	3.5260E+00	3.9790E+00	6.95016-01	7.4560E+00	1.6229E+01	4.6062E+00	3.8615E+01	2.9358E+02	7.4843E+02	9.9502E+02	
024	11000	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION		1.0025E+00	1.0035E+00	1.0020E+00	1.0021E+00	1.0044E+00	1.0042E+00	1.0026E+00	1.0046E+00	1.0067E+00	1.0046E+00	1.0050€+03	1.0089E+00	1.0080E+00	1.0066£+00	1.0111E+00	1.0125E+00	1.0098E+00	1.0143E+00	1.0183E+00	1.0151E+00	1.0193E+00	1.0258E+00	1.0232E+00	1.0274E+00	1.0364E+00	1.0351E+00	1.0404E+00	1.0515€+00	1.0527E+00	1.0611E+00	
NORMALIZED CROSS SECTION	E-TLANE	1,0298E+00	9.8785E-01	9.6662E-01	1.0213E+00	1.0260E+00	9.5996E-01	9.80996-01	1.0472E+00	9.90065-01	9.4132E-01	1.0332E+00	1.0361E+0C	9.2601E-01	9.9066E-01	1.0746E+00	9.3930E-01	9.3583E-01	1.0939E+00	9.7345E-01	8,8093E-01	1.0941E+00	1.01876+00	8.2976E-01	1.0815E+00	1.06832+00	7.7919E-01	1.0645E+00	1.1199E+00	7.21995-01	1.0524E+00	
0.74	יייייייייייייייייייייייייייייייייייייי	62.0	64.0	99	0.89	70.0	72.0	74.0	16.0	78.0	90.08	82.0	84.0	86.0	98.0	0.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION	H-F	1.0139£+00	1.0114E+00	1.0056E+00	1.0005E+00	9.9854E-01	9.9954E-01	1.00105+00	1.0010E+00	9.9999E-01	9.99616-01	1.0004E+00	1.0012E+00	1.0007E+00	9.99756-01	9.99836-01	1.0009E+00	1.0014E+00	1.0005E+00	9.9991E-01	1.0007E+00	1.0015E+00	1.000pE+00	1.0001E+00	1.0009E+00	1.0020E+00	1.0014E+00	1.0005E+00	1.0014E+00	1.0026E+00	1.0017E+00	1.0009E+00
NORMALIZED CROSS SECTION		1.0139E 00	1.00706+00	9.94135-01	9.89678-01	9.9741E-01	1.0067E+00	1.00568+00	9.96736-01	9.9377E-01	1.0019E+00	1.0086E+00	1.3019E+00	9.9026E-01	9.92838-01	1.00835+00	1.01246+00	9.96366-01	9.8567E-01	9.9964E-01	1.0145E+00	1.0019E+00	9.83588-01	9.9643E-01	1.0167E+00	1.0047E+00	9.78385-01	9.9436E-01	1.0229E+00	1.09135+00	9.71386-01	1.00165+00
	A.V.C.L.E.	0.0	5.0	6 .6	6.9	O. 19	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	26.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.C	20.0	52.0	54	55.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=31.4

S SECTION H-PLANE		.072BE+00	.0797E+00	.0924E+00	.1050E+00	.1215E+00	.1443E+00	.1521E+00	.1926E+00	.2246E+00	.2235E+00	.3213E+00	.3450E+00	.3445E+00	. 5660E+00	.5178E+00	. \$930E+00	2.0512E+00	.7593E+00	2.2350E+00	3.0760E+00	2.1354E+00	4.3746E+00	5.6075E+00	3.1972E+00	1.5332E+01	.5810E+01	.4835E+01	.2887E+02	.1967E+02	.0077E+03	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		-	_	9.26876-01 1	-	6.11576-01 1	9.45176-01 1	_	_	-	_	-	1.1936E+00 1	1.5633E+00 1	1.3759E-01 1	_	_					••	_		_		-	3.6769E+01 1		_	1.0077E+03 1	
ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
DSS SECTION H-PLANE	***************************************	1.0017E+00	1.0035E+00	1.0028E+00	1.0017E+00	1.0036E+00	1.0049E+00	1.0031E+00	1.0035E+00	1.0065E+00	1.0057E+00	1.0044E+00	1.0079E+00	1.0091E+00	1.0066E+00	1.0097E+00	1.0133E+00	1.0105E+00	1.0126E+00	1.0185E+00	1.0163E+00	1.0176E+00	1.0256E+00	1.0245E+00	1.0258E+00	1.0358E+00	1.0363E+00	1.0388E+00	1.0508E+00	1.0536E+00	1.0596E+00	
NORMALIZED CROSS SECTION F-PLANE H-PLANE		1,0254E+00	1.0121E+00	9.6391E-01	9.9472E-01	1.0383E+00	9.8413E-01	9.5667E-01	1.0318E+00	1,0251E+00	9.4050E-01	9.9520E-01	1.0598E+00	9.54145-01	9.4655E-01	1.0730E+00	9.8953E-01	9.0124E-01	1.0639E+00	1.0351E+00	8.6508E-01	1.0387E+C0	1.0831E+00	8.35556-01	1,0051E+00	1,1316E+00	8.0541E-01	9.7005E-01	1,1825E+00	7.65116-01	9.4062E-01	
u Cu		62.0	64.0	98.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ZED CROSS SECTION	TITLEME	1 03035+00	1 04725400	010010	1 00036+00	0 02035-01	0.07005-01	- 0000 + 0000 + 000	1 00175400	1 00125+00	9 997RF-01	9.9950F-01	1.00055+00	1.00115+00	1 00056+00	9 99805-01	1 0003E±00	1.0012F+00	1 00115+00	1 00015+00	1.00015+00	1.00125+00	1 00155+00	1 00055+00	1.0004E+00	1 00165+00	1.00195+00	1.000BF+00	1 0008F+00	1.0023F+00	1.0024E+00	1.0011E+00
NORMALIZED (E-PLANE								1.01365+00					004 12000						0 88915-01												
	ANGLE))	•	7 0	9 0	9	2 5			9 9	9 6	200	2.4.5		9 0	9 6	9 6		9.0	9.0	9.6		44.0	46.0	9 6			. 4		0 0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=31.6

MORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE 1 00645+00 1.000.25+00	ANGLE	E-PLANE E-PLANE 1.2625E+00	NORMALIZED CROSS SECTION E-PLANE H-PLANE 1.2625E+00 1.0719E+00
	64.0	1.0286E+00	1.0029E+00	124.0	7.9601E-01	1.0797E+00
	0.68.0	9.7905E-01	1.00356+00	128.0	1.3393E+00	1.0914E+00
	70.0	1.0308E+00	1.0026E+00	130.0	7.10595-01	1.1195E+00
	72.0	1.01435+00	1.00.19E+00	132.0	7.9933E-01	1.1443E+00
	74.0	9.5156E-01	1.0040E+00	134.0	1.4370E+00	1.1521E+00
	76.0	1,0012E+00	1.0029E+00	136.0	5.7720E-01	1.1873E+00
	78.0	1.0472E+00	1.0058E+00	138.0	8.5210E-01	1.2279E+00
	80.0	9.6276E-01	1.0067E+00	140.0	1.5530£+00	1.2217E+00
	82.0	9.5799E-01	1.0045E+00	142.0	3.95205-01	1.3116E+00
	84.0	1.05786+00	1.0066E+00	144.0	1.00196+00	1.3558E+00
	86.0	9.9678E-01	1.0097E+00	146.0	1.6905E+00	1.334BE+00
	88.0	9.2020E-01	1.0074E+00	148.0	1.8859E-01	1.5542E+00
	90.0	1.0437E+00	1.0082E+00	150.0	1.3196E+00	1.5409E+00
	95.0	1.0398E+00	1.0132E+00	152.0	1.88395+00	1.5622E+00
	94.0	8.9616E-01	1.0117E+00	154.0	2.7800E-02	2.0487E+00
	96.0	1.0118E+00	1.0113E+00	156.0	1.9025E+00	1.7950E+00
	98.0	1,08235+00	1.0178E+00	158.0	2.3881E+00	2.1597E+00
	100.0	8.8425E-01	1.0177E+00	160.0	7.24GDE-02	3.1152E+00
	102.0	9.70235-01	1.0165E+00	162.0	3.070E+00	2.1628E+00
	104.0	1.1216E+00	1.0244E+00	164.0	4.38815+00	4.2154E+00
	106.0	8.77635-01	1.0260E+00	166.0	7.7392E-01	5.7760E+00
	108.0	9.2449E-01	1.0248E+00	168.0	6.6175E+00	3.1109E+00
	110.0	1.1605E+00	1.0344E+00	170.0	1.6614E+01	1.499BE+01
	112.0	8.67556-01	1.0377E+00	172.0	5.4827E+00	1.6443E+01
	114.0	8.7807E-01	1.0379E+00	174.0	3.4962E+01	1.3875E+01
	116.0	1.2053E+00	1.0495E+00	176.0	2.9061E+02	2.2686E+02
	118.0	8.4413E-01	1.0545E+00	178.0	7.6174E+02	7.2564E+02
	120.0	8.3494E-01	1.0585E+00	180.0	1.0204E+03	1.0204E+03

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=31.8

	NORMAL 1 ZED	D CROSS SECTION		NORMALIZED C	CROSS SECTION		NORMALIZED (NORMALIZED CROSS SECTION
ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-DLANE	H-PLANE
-		111111111				1		
0.0	9.8785E-01	9.8785E-61	62.0	9.8359E-01	1.0012E+00	122.0	1.2397E+00	1.0707E+00
5.0	9.94385-01	9.9322E-01	64.0	1.0290E+00	1.0021E+00	124.0	9.11796-01	1.0797E+00
4.0	1.0064E+00	9.95595-01	99	1.0040E+00	1.0038E+00	126.0	7.0244E-01	1.0904E+00
9	1.0100E+00	1.0003E+00	68.0	9.6089E-01	1.0027E+00	128.0	1.3241E+00	1.1045E+00
8	1,0019E+00	1,0019E+00	10.0	1.0076E+00	1.0020E+00	130.0	8.3766E-01	1.1177E+00
10.0	9.93796-01	1.000BE+00	72.0	1.0360E+00	1.0043E+00	132.0	6.7206E-01	1.1436E+00
12.0	9.5624E-01	9.9953E-01	74.0	9.6745E-01	1.0049E+00	134.0	1.4432E+00	1,1530E+00
14.0	1.0046E+00	9,9977E-01	16.0	9.6926E-01	1.0030E+00	136.0	7.0770E-01	1.1818E+00
16.0	1.00565+00	1.0008E+00	78.0	1.0470E+00	1.0047E+00	138.0	6.9347E-01	1.2301E+00
18.0	9.96815-01	1,0010E+00	80.0	9.9838E-01	1.0071E+00	140.0	1.5961E+00	1.2222E+00
20.0	9.9236E-01	1.0001E+00	82.0	9.3652E-01	1.0052E+00	142.0	5.1509E-01	1.3006E+00
22.0	1.0013E+00	9.99618-01	84.0	1.0315E+00	1.0055E+00	144.0	8.1692E-01	1.3655E+00
24.0	1,0107E+00	1.0003E+00	86.0	1.0378E+00	1.0095E+00	146.0	1.7736E+00	1.3290E+00
28.0	1,00385+00	1.0012E+00	88.0	9.2093E-01	1.0086E+00	148.0	2.8077E-01	1.5385E+00
28.0	9.89275-01	1.0009E+00	90.06	9.9743E-01	1.0073E+00	150.0	1.1121E+00	1.5647E+00
30.0	9.5122E-01	9.9989E-01	92.0	1.0735E+00	1.0123E+00	152.0	2.0255E+00	1.5363E+00
32.0	1.0084E+00	9.9995E-01	94.0	9.2181E-01	1.0131E+00	154.0	8.15528-02	2.0383E+00
34.0	1.0118E+00	1.0010E+00	96.0	9.5417E-01	1.0108E+00	156.0	1.6859E+00	1.8359E+00
36.0	9.9394E-01	1.0013E+00	98.0	1.1015E+00	1.0164E+00	158.0	2.5579E+00	2.0873E+00
38.0	9.8708E-01	1.0004E+00	100.0	9.3249E-01	1.0190E+00	160.0	1.0123E-01	3.1430E+00
40.0	1.0057E+03	1.0001E+00	102.0	9.0738E-01	1.0163E+00	162.0	2.833CE+00	2.2037E+00
42.0	1.0144E+CO	1.0012E+00	104.0	1.1245E+00	1.0227E+00	164.0	4.5649E+00	4.0519E+00
44.0	9.92976-01	1.0016E+00	106.0	9.4514E-01	1.0272E+00	166.0	8.5425E-01	5.9327E+00
46.0	9.8226E-01	1.0005E+00	108.0	8.5846E-01	1.0247E+00	168.0	6.1984£+00	3.0503E+00
48.0	1.0072E+00	1.0004E+00	110.0	1.1492E+00	1.0326E+00	170.0	1.6757E+01	1.4643E+01
50.0	1.0186E+00	1.0016E+00	112.0	9.5207E-01	1.0387E+00	172.0	5.9663E+00	1.7070E+01
52.0	9.8925E-01	1.0020E+00	114.0	8.0675E-01	1.0376E+00	174.0	3.3195E+01	1.2967E+01
54.0	9.79996-01	1.0009E+00	116.0	1.1844E+00	1.0478E+00	176.0	2.8897E+02	2.2481E+02
56.0	1.0150E+00	1.0009E+00	118.0	9.4466E-01	1.0552E+00	178.0	7.6836E+02	7.31576+02
58.0	1.0178E+00	_	120.0	7.5278E-01	1.0578€+00	180.0	1.03335+03	1.0333E+03
9 0.0	9.7607E-01	1.0025E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=32.0

	E-PIANE	E-PLANE H-PLANE	ANGLE	E-PLANE	E-PLANE T-PLANE	ANGLE	E-PLANE	E-PLANE H-PLANE
1			-	2				*******
0.0	9.81136-01	9.81135-01	62.0	9.6992E-01	1.0017E+00	122.0	1.1744E+00	1.0693E+00
5.0	9.89735-01	9.840PE-01	64.0	1,0134E+00	1.0014E+00	124.0	1.0334E+00	1.0797E+00
4	1.00746.00	9.9125E-01	0.99	1,0256E+00	1.0034E+00	126.0	6.3809E-01	1.0894E+00
o. 9	1.01636.00	9.9866E-01	0.89	9.7008E-01	1.00355+00	128.0	1.2631E+00	1.1043E+00
8	1.00938+00	1,00275+00	0.07	9,8005E-01	1.0020E+00	130.0	9.7764E-01	1.1162E+00
0.01	9.9357E-01	1.0024E+00	72.0	1.0391E+00	1.0034E+00	132.0	5.76975-01	1.1423E+00
12.0	9.8769E-01	1.0001E+00	74.0	9.9659E-01	1.0053E+00	134.0	1.40105+00	1.1545E+00
14.0	9.97670-01	9.98895-01	16.0	9.5013E-01	1.0037E+00	136.0	8.60coE-01	1.1766E+00
16.0	1.00936+00	9 997CE-01	78.0	1.0251E+00	1.0037E+C0	138.0	5.58556-01	1.2306E+00
3.6	1.00767+00	1 001CE+00	80.0	1.0324E+00	1.0C69E+00	140.0	1.5902€+00	1.2246E+00
20.0	9.35116-01	1.0010E+00	82.0	9.3928E-01	1.0063E+00	142.0	6.65F6E-01	1.2889E+00
22.0	9.915 12-01	1.00015+00	84.0	9.9170E-01	1.0048E+00	144.0	6.41071-01	1.3732E+00
24 0	1.90251+00	9.99776-01	86.0	1.0621E+00	1.00855+00	146.0	1.825.RE+00	1.3272E+00
26.0	1.00937+00	1.00CEE+00	98.0	9.4808E-01	1.0097E+00	148.0	4.09295-01	1.5195E+00
28.0	9.99125-01	1.0011E+00	0.06	9.50596-01	1.0072E+00	150.0	9.0476E-01	1.5878E+00
30.0	9.89861-01	1.0005E+00	92.0	1.0797E+00	1.0109E+00	152.0	2.12/15E+00	1.5159E+00
32.0	9. 99611-01	9.99878-01	94.0	9.6945E-01	1.0140E+00	154.0	1.7154E-01	2.0205E+00
34.0	1.3.33.400	1.00C4E:C0	0.96	9.0866E-01	1.0111E+00	156.0	1.46178+00	1.8R08E+00
36.0	1 00.500 - 00	1,0013E+66	98.0	1.0874£+00	1.0147E+00	158.0	2.7038+00	2.0194E+00
36.0	9.86245-01	1.00.CE+00	100.0	9.9571E-01	1.0:98E+00	160.0	1.61158-01	3.1588E+00
40.0	9.92261-01	1.0001E+00	102.0	8.66895-01	1.0168€+00	162.0	2.580cE+00	2.2573E+00
42.0	1.01362+30	1.0005E+C0	104.0	1.0917E+00	1.0209E+00	164.0	4.7203E+00	3.8860E+00
0.44	1.0077E+C9	1.0018E+00	106.0	1,0211E+00	1.0278E+00	166.0	9.60356-01	6.0759E+00
4p.0	9.83805-01	1.00:38+03	108.0	8.2216E-01	1.0253E+00	168.0	5.78.º E+00	3.0154E+00
43.0	9.31375-01	1.0003E+00	110.0	1.1008E+00	1.0306E+00	170.0	1.680PE+01	1.4268E+01
90.0	1.0190E+00	1.00395+00	112.0	1.0410E+00	1.0392E+00	172.0	6.47745+00	1.7690E+01
52.0	1.00636-00	1.0021E+00	114.0	7.6997E-01	1.0380E+00	174.0	3.1469E+01	1.2111E+01
54.0	9.7663E-01	1.3016E+00	116.0	1.1245E+00	1.0459E+00	176.0	2.8727E+02	2.2270E+02
26.0	9.5607 ₹ -01	1.0007E+00	118.0	1.0487E+00	1.0556E+00	178.0	7.7495E+02	7.374BE+02
58.0	1.0251E+00	1.0013E+00	120.0	7.0754E-01	1.0576E+00	180.0	1.0462E+03	1.0462E+03
40.0								

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=32.2

NORMALIZED CROSS SECTION	H-PLANE		1.0678E+00	1.0795E+00	1.0885E+00	1.1039E+00	1.1150E+00	1.1404E+00	1.1563E+00	1.1721E+00	1.2296E+00	1.2287E+00	1.2773E+00	1.3785E+00	1.3293E+00	1.4982E+00	1.6092E+00	1.5017E+00	1.9957E+00	1.9282E+00	1.9575E+00	3. , 623E+00	2.3224E+00	3.7196E+00	6.2042E+00	3.00585+00	1.3877E+01	1.8300E+01	1.1308E+01	2.2055E+02	7.4335E+02	1.0592E+03	
NORMALIZED (E-PLANE		1.0776E+00	1.1440E+00	6.18496-01	1.1646E+00	1.1140E+00	5.2403E-01	1.3149E+00	1.0199E+00	4.5865E-01	1.5371E+00	8.3630E-01	4.8803E-01	1.8268E+00	5.6754E-01	7.0639E-01	2.1939£+00	2.9460E-01	1.2358E+00	2.8211E+00	2.5078E-01	2.3283E+00	4.8527E+00	1.0908E+00	5.3721E+00	1.6945E+01	7.0138E+00	2.9785E+01	2.8550E+02	7.81525+02	1.0592E+03	
	ANGLE	!!!!	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE		1.0024E+00	1.0012E+00	1.0026E+00	1.0040E+00	1.0025E+00	1.0025E+00	1.0051E+00	1.0046E+00	1.0032E+00	1.0060E+00	1.0072E+00	1.0049E+00	1.0072E+00	1.0103E+00	1.0078E+00	1.0094E+00	1.0143E+00	1.0121E+00	1.0132E+00	1.0197E+00	1.0180E+00	1.0192E+00	1.0275E+00	1.0265E+00	1.0289E+00	1.0390E+00	1.0389E+00	1.0441E+00	1.0555E+00	1.0579E+00	
NORMALIZED C	E-PLANE		9.7223E-01	9.90286-01	1.0327E+00	9.9300E-01	9.6162E-01	1.0224E+00	1.0255E+00	9.5221E-01	9.9146E-01	1.0509E+00	9.6478E-01	9.5408E-01	1.0607E+00	9.9137E-01	9.1937E-01	1.0566E+00	1.0234E+00	8.8904E-01	1.0447E+00	1.0558E+00	8.59346-01	1,0320E+00	1.0870E+00	8.2367E-01	1.0264E+00	1,1156£+00	7.7464E-01	1.0372E+00	1,1380E+00	7.0632E-01	
	ANGLE	1	62.0	64.0	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
IDRMALIZED CROSS SECTION	H-PLANE		9.9318E-01	9.9381E-01	9.95736-01	9.9860E-01	1.0012E+00	1.0019E+00	1.000BE+00	9.9931E-01	9.9925E-01	1.0005E+00	1.0014E+00	1.0007E+00	9.99705-01	9.9985E-01	1.0009E+00	1.0011E+00	1.0002E+00	1.0000E+00	1.0009E+00	1.0013E+00	1.0005E+00	1.0001E+00	1.0011E+00	1.00175+00	1.0003E+00	1.0005E+00	1.0017E+00	1.0021E+0C	1.0009E+00	1.0011E+00	1,0027E+00
NORMALIZED C	E-PLANE	11111111	9.9318E-01	9.9537E-01	•	1.0077E+00	1.0078E+00	9.9959E-01	9.9114E-01	9.9349E-01	1.0054E+00	1.0113E+00	1.0016E+00	9.8931E-01	9.9307E-01	1.0078E+00	1.0096E+00	9.9500E-01	9.89715-01	1.0045E+00	1.0121E+00	9.95455-01	9.84845-01	1.0035E+00	1.0167E+00	9.95618-01	9.8174E-01	1.0368E+00	1.0186E+90	9.87035-01	9.7963E-01	1.0176E+00	1.0153E+00
	ANGLE		0.0	5.0	4 .0	0.9	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	35.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	24.0	26.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

からのおきのではなるのは、これではないないない。 これのでんしょ

KA=32.4

CROSS SECTION	H-PLANE		1.0564E+00	1.0792E+00	1.0878E+00	1.1033E+00	1.1143E+00	1.1380E+00	1.1581E+00	1.1686E+00	1.2268E+00	1.2339E+00	1.2665E+00	1.3807E+00	1.3350E+00	1.4755E+00	1.6277E+00	1.4941E+00	1.9647E+00	1.9764£+00	1.9027E+00	3.1534E+00	2.3975E+00	3.5546E+00	6.3165E+00	3.0211E+00	1.3469E+01	1.8898E+01	1.0558E+01	2.1835E+02	7.4919E+02	1.0723E+03	
٥	E-PLANE		9.6478E-01	1.2273E+00	6.4581E-01	1.0413E+00	1.2308E+00	5.1854E-01	1.1940E+00	1.1728E+00	4.0146E-01	1.4412E+00	1.0151E+00	3.6700E-01	1.7828€+00	7.4755E-01	5.2528E-01	2.2197E+00	4.4650E-01	1.0143E+00	2.90875+00	3.6812E-01	2.0738E+00	4.9604E+00	1.2442E+00	4.9635E+00	1.6988E+01	7.5734E+00	2.8146E+01	2.8367E+02	7.8807E+02	1.0723E+03	
	ANGLE	! ; ! ! !	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
OSS SECTION	H-PLANE		1.0030E+00	1.0016E+00	1.0018E+00	1.0038E+00	1.0033E+00	1.0021E+00	1.0043E+00	1.0054E+00	1.0034E+00	1.0049E+00	1.0076E+00	1.0057E+00	1.0061E+00	1.0102E+00	1.0090£+00	1.0083E+00	1.0137E+00	1.0134E+00	1.0121E+00	1.0188E+00	1.0195E+00	1.0182E+00	1.0265E+00	1.0279E+00	1.0277E+00	1.0380E+00	1.0401E+00	1.0427E+00	1.0549E+00	1.0584E+00	
NORMALIZED CROSS SECTION	E-PLANE		9.88815-01	9.718BE-01	1.02175+00	1.018UE+00	9.6122E-01	9.9440E-01	1.0410E+00	9.7428E-01	9.6085E-01	1.0464E+00	1.0023E+00	9.3311E-01	1.0347E+00	1.0348E+00	9.1430E-01	1.0125E+00	1.0662E+00	9.0096E-01	9.8636E-01	1,0961E+00	8.8635E-01	9.6142E-01	1.1268E+00	8.6221E-01	9.4293E-01	1.1607E+00	8.1935E-01	9.3923E-01	1.1970E+00	7.4382E-01	
	ANGLE		62.0	64.0	99	68.0	20.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE	111111111	1.0118E+00	1.0095E+00	1.00435+00	9,99985-01	9.9879E-01	9-99-9E-01	1.00105+00	1.0006E+00	9.9974E-01	9-9984E-01	1.00085+06	1.0010E+00	1 0002E+00	9 99645-01	1.0003E+00	1.0012E+00	1.0008E+00	9.9598E-01	1 0003E+00	1.0012E+00	1,00115+00	1.0002E+00	1.0005E+00	1.0016E+00	1.0014E+00	1.0004E+00	1.0010E+00	1.0022E+00	1.0016E+00	1.0008E+03	1.0021E+00
NORMAL 12ED CI		7	1.011BE+00	1.0055E+90	9.94225-01	9.9163E-01		1 0065F+00			9.9617F-01			9.4652F-01			1.0121E+00	1.0045F+00	9.88645-01	9.9273E-01	1 01045+00	1.00805+39					9.8312E-01	9.90335-01	1.0190E+00	1.0049E+00	9.7527E-01	9.9969E-01	
	ANGLE		0.0	2.0	0.4	9	0	0	12.0	4	9	19.0	000	22.0	0.40	26.0	28.0	30.0	32.0	34.0	36.0	36.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=32.6

NORMALIZED CROSS SECTION	H-PLANE	* * * * * * * * * * * * * * * * * * * *	1.0652E+00	1.0786E+00	1.0872E+00	1.1026E+00	1.1140E+00	1.1354E+00	1.1597E+00	1.1662E+00	1.2226E+00	1.2398E+00	1.2571E+00	1.3799E+00	1.3438E+00	1.4525E+00	1.6424E+00	1,4929E+00	1.9287E+00	2.0240E+00	1.8562E+00	3.1324E+00	2.4812E+00	3.3931E+00	6.4116E+00	3.0606E+03	1.3049E+01	1.9483E+01	9.8583E+00	2.1610E+02	7.5500E+02	1.0854E+03	
NORMAL IZED	E-P! ANE	111111111	8.5350E-01	1.2714E+00	7.15826-01	9.08395-01	1.3145E+00	5.6059E-01	1.0505E+00	1.3040E+00	3.91436-01	1.31005+00	1.1897E+00	2.85126-01	1.6904E+00	9.4033E-01	3.6897E-01	2.2019E+00	6.2212E-01	8.0287E-01	2.9642E+00	5.1070E-01	1.8227E+00	5.0423E+00	1.4185E+00	4.5768E+00	1.6997E+01	8.15416+00	2.6552E+01	2.8178E+02	7.9459E+02	1.0854E+03	
	ANGLE	1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178 0	180.0	
NORMALIZED CROSS SECTION	H-PLANE		1.0030E+00	1.0023E+00	1.00146+00	1.00325+00	1.0040E+00	1.0023E+00	1.00335+00	1.0056E+00	1.0042E+00	1.0039E+00	1.0073E+00	1.0068E+00	1.0054E+00	1.0094£+00	1.0102E+00	1.0079E+00	1.0125E+00	1.0146E+00	1.0119E+00	1.0173E+00	1.0207E+00	1.0180E+00	1.0249E+00	1.0291E+00	1.0272E+00	1.0364E+00	1.0412E+00	1.0418E+00	1.0537E+00	1.0591E+00	
NORMALIZED C	E-PLANE		1.01035+00	9.6793E-01	9.5302E-01	1.0326E+00	9.7885E-01	9.6869E-01	1,0364E+00	1.0061E+00	9.4623E-01	1.0211E+00	1.0365E+00	9.3656E-01	9.9405E-01	1.0628E+00	9.3672E-01	9.6244E-01	1.0845E+00	9.4034E-01	9.3000E-01	1.1054E+00	9.4020E-01	8.9817E-01	1,1312E+00	9.2829E-01	8.6903E-01	1.1670E+00	8.9470E-01	8.4913E-01	1.2155E+00	8.2744E-01	
	ANGLE	1 1 1	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION	H-PLANE		1,0189E+00	1,0159E+00	1.0086E+00	1.0014E+00	9.9783E-01	9.98415-01	1.0007E+00	1,0016E+00	1.0007E+00	9.9955E-01	9.9982E01	1.0008E+00	1.0009E+00	1.0001E+00	9.9990E-01	1.0008E+30	1.0012E+00	1.0004E+00	9.9991E-01	1.0007E+00	1.0014E+00	1.0007E+00	1.0002E+00	1.0011E+00	1.0018E+00	1.0008E+00	1.0005E+00	1.0018E+00	1.0021E+00	1.0010E+00	1.0014E+00
NORMAL 12ED (E-PLANE		1.01895+00	1.0101E+00	9.9275E-01	9.8427E-01	9.92735-01	1.0078E+00	1.01185+00	1.0007E+90	9.9035E-01	9.9496E-01	1.0058E+00	1.0069E+00	9.95315-01	9.9240E-01	1.0046E+00	1.0101E+00	9.9645E-01	9.87035-01	1.0014E+00	1.0145-+00	9.99616-01	9.8461E-01	1.0013F+00	1.0166E+00	9.95256-01	9.80325-01	1.00755+00	1.01915+00	9.8508E-01	9.31695-01	1.0217E+00
	ANGLE	1 - 4 - 0	0.0	2.0	0.4	0.9	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=32.8

NORMALIZED CROSS SECTION ANGLE E-PLANE H-PLANE	ANGLE	
66.0		
72.0		
76.0		
882.0 84.0	0	9.9991E-01 9.9937E-01 1.0002E+00
86.0 88.0		1.0001E+00 86.0 1.0007E+00 88.0
94.0 94.0 96.0		
100.0	•	
106.0	•	
110.0		1.0005E+00 1.0016E+00 1.0014E+00
114.0		
118.0		1.0023E+00 118.0 1.0016E+00 120.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

STATES OF THE PROPERTY OF THE

KA=33.0

ISS SECTION H-PLANE		1.0638E+00	1.0769E+00	1.0865E+00	1.1006E+00	1.1141E+00	1.1299E+00	1.1609E+00	1.1654E+00	1.2108E+00	1.2511€+00	1.2444E+00	1.368BE+00	1.3679E+00	1.4096E+00	1.6580E+00	1.5093E+00	1.8458E+00	2.1114E+00	1.7912E+00	3.0558E+00	2.6679E+00	3.0875E+00	6.5471E+00	3.2093E+00	1.2175€+01	2.0604E+01	8.6216E+00	2.1148E+02	7.68518+02	1.1120E+03	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	:	7.0219E-01	1.22.19E+00	9.3976E-01	6.8353E-01	1.3498E+00	7.6272E-01	7.5485E-01	1.4609E+00	5.10626-01	9.84135-01	1.4796E+00	2.5493E-01	1.4188E+00	1.3260E+00	1.5510E-01	2.0582E+00	1.0205E+00	4.3240E-01	2.9747E+00	8.5944E-01	1.3444E+00	5.1256E+00	1.8228E+00	3.8297E+00	1.6916E+01	9.3695E+00	2.3506E+01	2.7781E+02	8.0755E+02	1.1120E+03	
ANGLE	1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE		1.0017E+00	1.0032E+00	1.0022E+00	1.0017E+00	1.003BE+00	1.0039E+00	1.0024E+00	1.00445+00	1.0058E+00	1.0038E+00	1.0052E+39	1.0081E+00	1.0061E+00	1.0069E+00	1.0110E+00	1.0093E+00	1.0097E+00	1.0152E+00	1.0136E+00	1.0142E+00	1.0211E+00	1.0197E+00	1.0214E+00	1.0298E+00	1.0285E+00	1.0328E+00	1.0423E+00	1.0419E+00	1.0504E+00	1.0601E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1 1 1 1 1 1 1 1 1 1	1.0254E+00	1,0025E+00	9.6607E-01	1.0114E+00	1.0280E+00	9.6505E-01	9.8435E-01	1.0438E+00	9.7913E-01	9.5566E-01	1.0473E+00	1.0011E+00	9.3062E-01	1.0426E+00	1.0249E+00	9.0816E-01	1.0355E+00	1.0471E+00	8.8375E-01	1.0323E+00	1.0658E+00	8.5197E-01	1.0402E+00	1.0774E+00	8.08676-01	1.0686E+00	1.0731E+00	7.5465E-01	1.1280E+00	1.0357E+00	
ANGLE	1	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION H-PLANE		9.8972E-01	9.91916-01	9.96758-01	1.0007E+C0	1.0016E+00	1.0004E+00	9.99515-01	1.0001E+00	1.0009E+00	1.0006E+00	9.99785-01	9.99815-0:	1.0008E+00	1.0011E+00	1.0003E+00	9.9976E-01	1.0005E+00	1.0012E+00	1.0007E+00	1.00COE+00	1.0007E+00	1.0014E+03	1.0008E+00	1.0002E+00	1.0011E+00	1.0018E+00	1.0009E+00	1.0007E+00	1.0020E+00	1.0622E+00	1.0010E+00
NORMALIZED C E-PLANE		9.8972E-61	ı	+		9.9996£-01					9.9432E-01			+	- 1		+	+	+		1.	+	1.0004E+00	- 1				ŧ	٠	+	9.30705-01	
ANGLE	1	0.0	5.0	9	6.0	0.0	0.01	12.0	0.7	16.0	18.0	20.0	22.0	24.0	26.0	26.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	20.0	52.0	54.0	26.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=33.2

S SECTION H-PLANE		.0637E+00	.0757E+00	.0863E+00	.0994E+00	.11446+00	.1276E+00	.1603E+00	. 1666E+00	.2041E+00	.2554E+00	.2417E+00	.3592E+00	.3815E+09	.3916E+00	.6580E+00	.5258€+00	.8016E+00	2.1486E+00	.77375+00	3.0017E+00	2.7674E+00	.9468E+00	6.5863€+00	3.31656+00	.1726E+01	2.11376+01	1.0831E+00	2.0910E+02	.7221E+02	. 12545+03	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	•	_	1.1421E+00 1	1.0628E+00 1	6.1857E-01 1	1.2983E+00 1	9.0031E-01 1	6.3202E-01 1	1.4716E+00 1	6.2906E-01 1	8.1502E-01	1.5752E+00 1	3.07695-01	1.2431E+00 1	1.5000E+00	1.0625E-01 1	1.9320E+00 1	_		2.92965+00	1.05866+00 3	••		-	3.4791E+00 3	1.6826E+01 1		2.2056E+01 8	a	8.1398E+02 7	1.1254E+03	
ANGLE		122.0	124.0	126.0	128.0	130.0	132 0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION H-PLANE	• • • • • • • • • •	1.0012E+00	1.0029E+00	1.0029E+00	1.0016E+00	1.0030E+00	1.0044E+00	1.0028E+00	1.0034E+00	1.0060E+00	1.0046E+00	1.0043E+00	1.0078E+00	1.0071E+00	1.0060E+00	1.0104E+00	1.0105E+00	1.0089E+00	1.0143E+00	1.0149E+00	1.0133£+00	1.0202E+00	1.0210E+00	1.0202E+00	1.0290E+00	1.0297E+00	1.03136+00	1.0419E+00	1.0427E+00	1.048E+00	1.0601E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.0114E+00	1.0221E+00	9.7235E-01	9.8657E-01	1.0353E+00	9.8804E-01	9.6120E-01	1.0334E+00	1.0119E+00	9.4299E-01	1.0205E+00	1.0368E+00	9.3138E-01	1.0027E+00	1.0596E+00	9.2143E-01	9.8472E-01	1.0813E+00	9.0667E-01	9.7114E-01	1.1036E+00	8.8007E-01	9.6802E-01	1.1257E+00	8.34786-01	9.8546E-01	1.1408E+00	7.6729E-01	1.0384E+00	1.1305E+00	
ANGLE		62.0	64.0	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION H-PLANE		9.8238E-01	9.85376-01	9.9247E-01	9.9943E-01	1.0027E+00	1.0013E+00	9.996aE-01	9.9904E-01	1.0002E+00	1.0011E+00	1.0006£+00	9.9961E-01	1.0000E+00	1.0009£+00	1.0008E+00	9.9993E-01	1.0000E+00	1.0010E+00	1.0011E+00	1.0003E+00	1.0002E+00	1.0012E+00	1.00138+00	1.0004E+00	1.000EE+00	1.0317£+00	1.0015E+00	1.0006E+00	1.0014E+00	1.0025E+00	1.0015E+00
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1 1 1 1 1 1 1 1	9.82385-01	9.91035-01	1.0081E+00	1.0157E+00	1.0063£+00	9.9188E-01	9.89655-01	1.0015E+00	1.0099E+00	1.0032E+00	9.9265E-01	9.9561E-01	1.0067E+00	1.0055E+00	9.92905-01	9.92565-01	1.0078E+00	1.0103E+00	9.9259E-01	9.87965-01	1.0072E+00	1.0118E+00	9.89965-01	9.87956-01	1.0136E+00	1.0105E+00	9.81206-01	9.9225E-01	1.0218E+00	9.9811E-01	9.73296-01
ANGLE	1	0.0	7 .0	0.4	9 .0	9.0 8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	26.0	58.0	90 .0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=33.4

CROSS SECTION	H-PLANE		1.0638E+00	1.0745E+00	1.0860E+00	1.0982E+00	1.1146E+00	1.12586+00	1.15886+00	1.1687E+00	1.1976E+00	1.2582E+00	1.2416E+00	1.3475E+00	1.3949E+00	1.3770£+00	1.6527E+00	1.5467E+00	1.7574E+00	2.1798E+00	1.7665E+00	2.9385E+00	2.8686E+00	2.8163E+00	6.6059E+00	3.4441€+00	1.1271E+01	2.1649E+01	7.5979€+00	2.0669E+02	7.7788E+02	1.1388E+03	
NORMALIZED C	E-PLANE		7.1198E-01	1.0345E+00	1.1710E+00	5.9745E-01	1.2074E+00	1.0427E+00	5.4265E-01	1.4352E+00	7.7407E-01	6.5829E-01	1.628BE+00	4.0176E-01	1.0555E+00	1.6499E+00	9.88555-02	1.7765E+00	1.4378E+00	1.6256E-01	2.85215+00	1.2692E+00	9.1993E-01	5.09836+00	2.2868E+00	3.1462E+00	1.6703E+01	1.0642E+01	2.0655E+01	2.7360E+02	8.2039E+02	1.1388E+03	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE		1.0010E+00	1.0022E+00	1.0033E+00	1.0020E+00	1.0022E+00	1.0044E+00	1.0036E+00	1.0027E+00	1.0055E+00	1.0055E+00	1.0039E+00	1.0069€+00	1.0081E+00	1.0059E+00	1.0093E+00	1.0115E+00	1.0088E+00	1.0129E+00	1.0160E+00	1.0132E+00	1.0187E+00	1.0222E+00	1.0198E+00	1.0276E+00	1.0310€+00	1.0304E+00	1.0408E+00	1.0438E+00	1.0474E+00	1.0597E+00	
NORMALIZED CROSS SECTION	E-PLANE		9.9075E-01	1.0287E+00	9.91815-01	9.6801E-01	1.0243E+00	1.0152E+00	9.5520E-01	1.0072E+00	1.0377E+00	9.5285E-01	9.844!E-01	1.0558E+00	9.5589E-01	9.6035E-01	1.0708E+00	9.5826E-01	9.3704E-01	1.0873E+00	9.5376E-01	9.1594E-01	1.1096E+00	9.3506E-01	9.039E-01	1.1402E+00	8.9297E-01	9.0213E-01	1,1752E+00	8.1868E-01	9.3828E-01	1.1976E+00	
	ANGLE	1	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION	H-PLANE	1 8 6 6 5 1 1 1 1 1 1 1	9.9258E-01	9.9342E-01	9.9582E-01	9.9901E-01	1.0014E+00	1,0018E+00	1.0003E+00	9.9916E-01	9.9959E-01	1.0009E+00	1.0012E+00	1.0002E+00	9.9962E-01	1.00035+00	1.0010E+00	1.0006E+00	9.9994E-01	1.0004E+00	1.0012E+00	1.0008E+00	1.0000E+00	1.0006E+00	1.0015E+00	1.0009E+00	1.0003E+00	1.0013E+00	1,0019E+00	1.0039E+00	1.0008E+00	1.0022E+00	1.0021E+00
NORMAL 1 2ED C	E-PLANE	111111	9.9258E-01	9.9537F-01	1.0024E+00			9.97356.01	9.9092E-01	9.96665-01	1.0082E+00	·		9.8949E-01	9.9965E-01	1.0103E+00		9.9045E-01	9.9710E-01	1.0108E+00		ပ	9.96105-01		1.0029E+00		1.0000E+00		9.9336E-01			1.0159E+00	9.7874E-01
	ANGLE	-	0.0	0	4	9	0	10.0	12.0	0.4	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	24.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

ASSA SOSSON DOVERS ESTABLISH TO

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=33.6

ANGLE	NORMAL I ZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED C E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
,						*****		
0.0	1.0100E+00	1.0100E+00	62.0	9.74785-01	1.0014E+00	122.0	7.78415-01	1.0642E+00
0.0	1.0042E+00	1.0079E+00	64.0	1,0192E+00	1.0015E+00	124.0	9.1736E-01	1.0733E+00
4	9.9451E-01	1.0032E+00	0.99	1,01435+00	1.0033E+00	126.0	1.2446E+00	1.0858E+00
6.0	9.9353E-01	9.9966E-01	68.0	9.6503E-01	1.0027E+00	128.0	6.22385-01	1.0970E+00
0.8	1.0013E+00	9.9908E-01	70.0	1,00082+00	1.0018E+00	130.0	1.08R2E+00	1.1147E+00
10.01	1.0057E+00	1.0003E+00	72.0	1,0338E+00	1.00385+00	132.0	1.1744E+00	1.1245E+00
12.0	1.0005E+00	1.0010E+00	74.0	9.6881E-01	1.0043E+00	134.0	4.9534E-01	1.1565E+00
14.0	9.9481E-01	1.0003E+00	76.0	9.7718E-01	1.0027E+00	136.0	1.3554E+00	1.1714E+00
16.0	9.9908E-01	9,9965E-01	78.0	1,0455E+00	1.0046E+00	138.0	9.3331E-01	1.1915E+00
18.0	1.0066E+00	1,0001E+00	80.0	9.80635-01	1.0062E+00	140.0	5,2598-01	1.2591E+00
20.0	1.0034E+00	1.0009E+00	82.0	9.53546-01	1.0042E+00	142.0	1.6363F+00	1.2439E+00
22.0	9. 3281E-01	1.0007E+00	84.0	1.0510E+00	1.0058E+00	144.0	5.30naE-01	1.3344E+00
24.0	9.9345E-01	9.9983E-01	86.0	9.9451E-01	1.0086E+00	146.0	8.66295-01	1.4072E+00
26.0	1.0067E+00	9.99846-01	88.0	9.3092E-01	1.0064E+00	148.0	1.76%EE+00	1.3663E+00
28.0	1.0099E+00	1.0008E+00	90.06	1.0550E+00	1.0079E+00	150.0	1.32476-01	1.6422E+00
30.0	9.95495-01	1.0011E+00	92.0	1.0060E+00	1.0119E+00	152.0	1.5977E+00	1.5711E+00
32.0	9.8890E-01	1.0003E+00	94.0	9.0775E-01	1.0095E+00	154.0	1.6355E+00	1.7146E+00
34.0	1.0C34E+00	9.9996E-01	96.0	1,0635E+00	1.01146+00	156.0	7.4313E-02	2.2041E+00
36.0	1.01125+00	1.0003E+60	98.0	1.0109E+00	1.0164E+00	158.0	2.7442E+00	1.7695E+00
38.0	9.9532E-01	1.0011E+00	100.0	8.8217E-01	1.0138£+00	160.0	1.4871E+00	2.8674E+00
40.0	9.87355-01	1.0004E+00	102.0	1.0827E+00	1.0171E+00	162.0	7.35246-01	2.9698E+00
45.0	1.0071E+00	1.0002E+00	104.0	1.0025E+00	1.0229E+00	164.0	5.0446E+00	2.6973E+00
0.44	1.01316-00	1.0012E+00	106.0	8.55396-01	1.0202E+00	166.0	2.5355E+00	6.6059E+00
46.0	9.8949E-01	1.0014E+00	108.0	1,1179E+00	1.0259E+00	168.0	2.832BE+00	3.5906E+00
48.0	9.3657E-01	1.0005E+00	110.0	9.69946-01	1.0319E+00	170.0	1.6549E+01	1.0813E+01
20.0	1.01385.00	1.0007E+00	112.0	8.3607E-01	1.0301E+00	172.0	1.1295E+01	2.2139E+01
52.0	1.0092E+00	1.0018E+00	114.0	1,1699E+00	1.0393E+00	174.0	1.9306E+01	7.165BE+00
54.0	9.7956E-01	1.0015E+00	116.0	8.98716-01	1.044BE+00	176.0	2.7141E+02	2.0424E+02
56.0	9.9580E-01	1.0006E+00	118.0	8.4539E-01	1.0465E+00	178.0	8.2676E+02	7.8351E+02
58.0	1.0236E+00	1.0017E+00	120.0	1.2262E+00	1.0588E+00	180.0	1.1524E+03	1.1524E+03
60.0	9.9240E-01	1.0025E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=33.8

	NORMALIZED C	ED CROSS SECTION		NORMALIZED C	NORMALIZED CROSS SECTION	1	NORMALIZED (NORMALIZED CROSS SECTION
ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
1			;		1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		0 725.25.01	1 OCARETON
0.0	1.0176E+00	1.0176E+00	52.0	9. / ZZOE -01	1 . 0020E+00	0.77	0.1333E-01	0010000
2.0	1.0088E+00	1.0146E+00	64.0	9.9905E-01	1.0012E+00	124.0	8.0935E-01	1.0/22E+00
9	9.9213E-01	1.0074E+00	0.99	1.0283E+00	1.0027E+00	126.0	1.2885E+00	1.0855E+00
6	9. 8559E-01	1.0007E+00	0.89 0	9.7892E-01	1.0033£+00	128.0	6.8975E-01	1.0959E+00
		9.9787E-01	70.0	9.7660E-01	1.0015E+00	130.0	9.5493E-01	1.1144E+00
0		9.9893E-01	72.0	1.0350E+00	1.003CE+00	132.0	1.2813E+00	1.1239E+00
12.0		1.0010E+00	74.0	9.95336-01	1.0047E+00	134.0	4.9442E-01	1.1535E+00
	9 972AF-01	1.0014E+0C	76.0	9.56568-01	1.0032E+00	136.0	1.2398E+00	1.1741E+00
	9 9103F-01	1.00025+00	78.0	1.0322E+00	1.0036E+00	138.0	1.0934E+00	1.1865E+00
4		9.99535-01	80.0	1.0144E+00	1.0063E+00	140.0	4.2795E-01	1.2581€+00
000	1.00805+00	1.00025+00	62.0	9.4020E-01	1.0050E+00	142.0	1.5991E+00	1.2484E+00
22.0		1.00¢9E+00	84.0	1.0247E+00	1.0048E+00	144.0	6.8712E-01	1.3207E+00
24.0	9.92665-01	1.0005E+00	86.0	1.0326E+00	1.0085E+00	146.0	6.8581E-01	1.4177E+09
26.0	9.9750E-03	9.9985E-01	88.0	9.2488E-01	1.0074E+00	148.0	1.8501E+00	1.359BE+00
28.0		1.0002E+00	0.06	1.0182E+00	1.0069E+00	150.0	2.0681E-01	1.6270E+00
0		1.0010E+00	92.0	1.0487E+00	1.0116E+00	152.0	1.4023E+00	1.5978E+00
32.0		1.0007E+00	94.0	9.0603E-01	1.0106E+00	154.0	1.8201E+00	1.6743E+00
34.0	9.9403E-01	9.9955-01	96.0	1.0180E+00	1.0103E+00	156.0	2.0281E-02	2.2209E+00
36.0		1.0003E+00	0.86	1.0611£+00	1.0161E+00	158.0	2.60e3E+00	1.7823€+00
38		1.0012E+00	100.0	8.7907E-01	1.0150E+00	160.0	1.7091E+00	2.7898E+00
0.0		1,0009E+00	102.0	1.0307E+00	1.0156E+00	162.0	5.7229E-01	3.0691E+00
42.0		1.0002E+00	104.0	1.0648£+00	1.0228E+00	164.0	4.9639E+00	2.5911E+00
44		1.0007E+00	106.0	8.42146-01	1.0212E+00	166.0	2.7921E+00	6 5863E+00
46.0		1.0015E+00	109.0	1.0645E+00	1.0241E+00	168.0	2.5402E+00	3.7547E+00
48.0		1,0010E+00	110.0	1.0484E+00	1.0323E+00	170.0	1.635E+01	1.0354E+01
20.0		1.0004E+00	112.0	8.0089E-01	1.0306E+00	172.0	1.1955E+01	2.2605E+01
6.0		1.0014E+00	114.0	1.1264E+00	1.0375E+00	174.0	1.8038E+01	6.7866E+00
45		1.0019E+00	116.0	9.92038-01	1.0455E+00	176.0	2.6916E+02	2.0175E+02
56.0		1.0009E+00	118.0	7.76045-01	1.0460E+00	178.0	8.3310E+02	7.8910E+02
58.0	1.0169E+00	1.0011E+00	120.0	1.2120E+00	1.0575E+00	180.0	1.1660E+03	1.1660E+03
0.09	•	1.0025E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA-34.0

ROSS SECTION	H-PLANE		1.0649E+00	1.0713E+00	1.0850£+00	1.0949E+00	1.11386+00	1.1238E+00	1.1501E+00	1.1767£+00	1.1827E+00	1.2552E+00	1.2544E+00	1.3071E+00	1.4256E+00	1.357BE+00	1.6078E+00	1.6257E+00	1.6379E+00	2.2295E+00	1.8045E+00	2.7071E+00	3.1649E+00	2.4986E+00	6.5474E+00	3.9348E+00	9.8958E+00	2.3045E+01	6.4600E+00	1.9923E+02	7.9466E+02	1.1797E+03	
NORMALIZED CROSS SECTION	E-PLANE		9.8227E-01	7.2470E-01	1.2827E+00	7.905EE-01	8.2337E-01	1.35218+00	5.3956E-01	1.09935+00	1.240BE+00	3.7129E-01	1.5186E+00	8.6030E-01	5.2390E-01	1.89115+00	3.16385-01	1.1976E+00	1.9826E+00	1.6287E-03	2.4475E+00	1.9279E+00	4.3322E-01	4.8577E+00	3.054:E+00	2.2700E+00	1.6153E+01	1.2620E+01	1.6763E+01	2.6686E+02	8.3941E+02	1.1797E+03	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ADSS SECTION	H-PLANE	1111111111	1.0026E+00	1.0013E+00	1.0020E+00	1.0036E+00	1.0024E+00	1.0023E+00	1.0046E+00	1.0040E+00	1.0030E+00	1.0058E+00	1.00596+00	1.0044E+00	1.0077E+00	1.0085E+00	1.0065E+00	1.0106€+00	1.0118E+00	1.0097E+00	1.01526+00	1.0163E+00	1.0147E+00	1.0220E+00	1.0225E+00	1.0228E+00	1.0319E+00	1.0316E+00	1.0358E+00	1.04576+00	1.0462E+00	1.0561E+00	
NORMALIZED CROSS SECTION	E-PLANE		9.8432E-01	9.7930E-01	1.026BE+00	1,0023E+00	9.6331E-01	1.0187E+00	1.0223E+00	9.5427E-01	1.0038E+00	1.0401E+00	9.49546-01	9.8765E-01	1.0561E+00	9.44105-01	9.7358E-01	1.0722E+00	9.3199E-01	9.6497E-01	1.0897£+00	9.0701E-01	9.6785E-01	1.1061E+00	8.6400E-01	9.92916-01	1,1110E+00	8.03556-01	1.0539E+00	1.0811E+00	7.4220E-01	1.1579E+00	
	ANGLE		62.0	64.0	66.0	68.0	70.0	72.0	74.0	0.94	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE		1.0082E+00	1.0073F+00	1.0046E+00	1.0012E+00	9.9893E-01	9.98855-01	1.0004E+00	1.0014E+00	1.0008E+00	9.9960E-01	3.9961E-01	1.0006E+00	1.0010E+00	1.0003E+00	9.9984E-01	1.0005E+00	1.0012E+00	1.0004E+00	1.0000E+00	1.000BE+00	1.0013E+00	1.00c5E+00	1.0002E+00	1.0012E+00	1.0014E+00	1.0005E+30	1.0008E+00	1.0020E+00	1.0015E+00	1.0008E+00	1.0020E+00
NORMAL I ZED C	E-PLANE		1.0082E+00	•		9.91955-01			•		•							1 00952+00		•	1.0026E+00	1.0127E+00	9.96256-01					9.8752E-01				•	1.0230E+00
	ANGLE	111	0	9.0	4 .0	9	8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	56.0	52.0	54.0	56.0	58.J	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=34.2

OSS SECTION	H-PLANE		1.0651E+00	1.0706E+00	1.0843E+00	1.0942E+00	1.1128E+00	1.1242E+00	1.1465E+00	1.1787E+00	1.1804E+00	1.2504E+00	1.2615E+00	1.2944E+00	1.4305E+00	1.3601E+00	1.5852E+00	1.6534E+00	1.6063E+00	2.2297E+00	1.83516+00	2.6209E+00	3.2555E+00	2.4207E+00	6.4896E+00	4.1294E+00	9.4402E+00	2.3460E+01	6.1857E+00	1.9667E+02	8.0017E+02	1.1935E+03	
NORMALIZED CROSS SECTION	E-PLANE	1	1.0876E+00	6.75398-01	1.2336E+00	9.1202E-01	7.0832E-01	1.3745E+00	6.25PFE-01	9.4691E-01	1.3635E+00	3.59~6E-01	1.4010E+00	1.0397E+00	3.8927E-01	1.88º5E+00	4.5817E-01	9.91085-01	2.1188E+00	1.8552E-02	2.26546+00	2.14245+00	3.19785-01	4.7272E+00	3.3190E+00	2.0233E+00	1.5907E+01	1.3289E+01	1.5572E+01	2.6451E+02	8,4568E+02	1.1935E+03	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE		1.0027E+00	1.0019E+00	1.0014[+00	1.0033E+00	1.0032E+00	1.0020E+00	1.0039E+00	1.0047E+00	1.0030E+00	1.0049E+00	1.0066E+00	1.0046E+00	1.0066E+00	1.0091E+00	1.0068E+00	1.0093E+00	1.0126E+00	1.0099E+00	1.0137E+00	1.0173E+00	1.0146E+00	1.0206E+00	1.0237E+00	1.0220E+00	1.0309E+00	1.0328E+00	1.0344E+00	1.0453E+00	1.0467E+00	1.0545E+00	
NORMALIZED C	E-PLANE	111111111	1.0043E+00	9.7029E-01	1,0107E+00	1.0232E+00	9.6709E-01	9.9266E-01	1.0373E+00	9.7110E-01	9.7306E-01	1.0473E+00	9.7751E-01	9.5440E-01	1.0564E+00	9.8120E-01	9.3673E-01	1.0699£+00	9.7683E-01	9.2080E-01	1.0885E+00	9.5765E-01	9.1127E-01	1.1161E+00	9.1516E-01	9.2002E-01	1.1442E+00	8.4310E-01	9.6719E-01	1.1492E+00	7.4948E-01	1.0732E+00	
	ANGLE	1 1 1 1	62.0	64.0	0.99	68.0	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION	H-PLANE		9.9142t-01	9.93426-01	9.97716-01	1.0009E+00	1.0C12E+00	1.0000E+00	9.99616-01	1.0004E+00	1.0009E+00	1.0003E+00	9.99655-01	1.0001E+00	1.0010E+00	1.0007E+00	9.9933E-01	1.0000E+00	1.0009E+00	1.00095+00	1.0001E+03	1.0003E+00	1.0012E+03	1.0010E+00	1.0002E+00	1.0007E+C0	1.00165+00	1.0010E+00	1.0005E+00	1.0016E+00	1.0020E+00	1.0009E+00	1.0014E+00
NORMALIZED CROSS SECTION	E-PLANE		9.91426-01	9.96365-01	1.0057E+30	1.0061E+00	9.9852E-01	9.9527E-01	1.0010E+00	1.00535+00	9.99865-01	9.9354£-01	9.98356-01	1.0084∑+00	1.3642E+30	9.91455-01	9.93385-01	1.0C79E+00	1.00932.00	9.9243E-01	S. 9207E -01	1.0092E-00	1.00705+00	9.87315-01	9.9357E-01	1.01520+00	1.0C27E+00	9.81796-01	1.0030E+00	1.3182E+00	9.8658£-01	9.8334E-31	1.0212E+00
	ANG! E		0.0	0.	9.	0.9	0	0.01	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	0.45	46.0	C. 84	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=34.4

!	!					1.00095+00	1.0071E+00	60.0
1.2074E+03	1.2074E+03	180.0	1.05316+00	9.7257E-01	120.0	1.0014F+00	9.7608E-01	90.0
1.9408E+02	2.6210E+02	176.0	1.044E+00	1.1840E+00	0.0	1.0010E+00	1.0176E+00	4.6
5.9632E+00	1.4434E+01	174.0	1.0336E+00	8.8363E-01	114.0	1.0006E+00	9.8E03E-01	52.0
2.38476+01	1.3959E+01	172.0	1.0339E+00	9.1081E-01	112.0	1.0015E+00	9.8725E-01	50.0
8.98936+00	1.5636E+01	170.0	1.0293E+00	1.1410E+00	110.0	1.0013E+00	1.0138£+00	48.0
4.33656+00	1.8013E+00	168.0	1.0220£+00	8.6291E-01	108.0	1.0003E+00	1.2066₹+00	0.94
6.4135E+00	3.58446+00	166.0	1.0245E+00	9.8278E-01	106.0	1.00C6E+00	9.86035-01	44.0
2.3581E+00	4.5740E+00	164.0	1.019CE+00	1.0926E+00	104.0	1.0013€+00	9.07615-01	75.0
3.3394E+00	2.3335E-01	162.0	1.0152E+00	8.7616E-01	102.0	1.0007E+60	1.0128E-00	40.0
2.5329E+00	2.3475E+00	160.0	1.0177E+00	1,0164E+00	100.0	1.0000E+00	9.99385-01	38.0
1.8733E+00	2.0663E+00	158.0	1.0123E+00	1.0584E+00	98.0	1.0006E+00	9.87575-01	36.0
2.2215E+00	7.0286E-02	156.0	1.0107E+00	8.9896E-01	0.96	1.0011E+0C	1.0008E+00	34.0
1.5805E+00	2.2244E+00	154.0	1.0127E+00	1.0259E+00	94.0	1.0005E+00	1.01125+00	35.0
1.67995+00	7.9044E-01	152.0	1.0081E+00	1.0403E+00	92.0	9.9965E-01	1.0001E+00	30.0
1.5603E+00	6.2434E-01	150.0	1.0076E+00	9.2025E-01	0.05	1.0004E+00	9.9101E-01	28.0
1.3665E+00	1.8457E+00	148.0	1.0092E+00	1.0225E+00	88.0	1.0009E+00	9.9977E-01	26.0
1.4319E+00	2.8908E-01	146.0	1.0055E+00	1.0338E+00	86.0	1.0004E+00	1.0076E+00	24.0
1.2833E+00	1.2141E+00	144.0	1,0053E+00	9.3774E-01	84.0	9.9978E-01	1.00035+09	22.0
1.2690E+00	1.2547E+00	142.0	1.0068E+00	1.0125E+00	82.0	1.0002E+00	9.9265E-01	20.0
1.2441E+00	3.9442E-01	140.0	1.0040E+00	1,0333E+00	80.0	1.001CE+00	9.99:01-01	18.0
1.1796E+00	1.45:2E+00	138.0	1.0035E+00	9.5320E-01	78.0	1.0005E+00	1.0085E+00	ç. Ç.
1.1798E+00	7.9659E-01	136.0	1.0050E+00	9.9932E-01	76.0	9.9931E-01	1.0044E+00	14.0
1.1430E+00	7.4427E-01	134.0	1.0031E+00	1,0339E+00	74.0	9.99405-01	9.92505-01	12.0
1.1249E+00	1.3608E+00	132.0	1.0022E+00	9.6962E-01	72.0	1.0013E+00	9.91015-01	10.0
1.1115E+00	6.2480E-01	130.0	1.0037E+00	9.8584E-01	70.0	1.0025E+00	1.0036E+30	0.B
1.0937E+00	1.0383E+00	128.0	1.C026E+00	1.0311E+00	68.0	1.0000E+00	1.0142E+00	0. 9
1.0836E+00	1.1482E+00	126.0	1.0013E+00	9.88586~01	0.99	9.93586-01	1.0086E+00	0.4
1.0703E+00	6.6994E-01	124.0	1.0025E+00	9.7643E~01	64.0	9.8660E-01	9.9225E-01	9.0
1.0650E+00	1.1732E+00	122.0	1.0024E+00	1.0208E+00	62.0	9.8360E-01	9.83605-01	0.0
		1				111111111		1774
H-PLANE	E-PLANE	ANGLE	H-PLANE	E-PLANE	ANGLE	H-PLANE	E-PLANE	ANGLE
NORMALIZED CROSS SECTION			KUSS SECTION	NORMALIZED CROSS SECTION		ZED CROSS SECTION	NORMAL IZED C	

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

THE RESIDENCE OF SECURITIES AND ASSESSED TO SECURITIES AND ASSESSED.

KA=34.6

E-PLANE	IE H-PLANE	ANGLE	E-PLANE	E-PLANE H-PLANE	ANGLE	E-PLANE H-PLANE	H-PLANE
	9.9212E-01	62.0	1.0250E+00	1.001BE+00	122.0	1.225 RE+00	1.0645E+00
4.9546E-01	9.931 /E-01	64.0	9.9413E-01	1.0029E+00	124.0	7.0694E-01	1.0701E+00
.0033E+00	9.9539E-01	0.99	9.71945-01	1.0017E+00	126.0	1.03-4E+00	1.0826E+00
•	9.9942E-01	68.0	1.0224E+00	1.0019E+00	128.0	1.15355+00	1.0934E+00
+	1.0016E+00	70.0	1,0103E+06	1.0037E+00	130.0	5.8055F-01	1.1100E+00
	1.0015E+00	72.0	9.6047E-01	1.0028E+00	132.0	1.2934E+00	1.1258E+00
1	9.9936F-01	74.0	1.01416+00	1.0024E+00	134.0	8.8277E-01	1.1399E+00
•	9.9916E-01	0.92	1.0262E+00	1.0048E+00	136.0	6.6232E-01	1.1799E+00
٠	9.9998E-01	78.0	9.5256E-01	1.0043E+00	138.0	1.4970E+00	1.1804E+00
+	1.0010E+00	80.0	1.0044E+00	1.0033E+00	140.0	4.7165E-01	1.2367E+00
•	1.000BE+00	82.0	1.0403E+00	1.0063E+00	142.0	1.089BE+00	1.2763E+00
- 1	9.99358-01	84.0	9.4378E-0:	1.0062E+00	144.0	1.3728E+00	1.2743E+00
+	9.9980E-01	96.0	9.9698E-01	1.0049E+00	146.0	2.2854E-01	1.429BE+00
•	1.0007E+00	98.0	1.0529E+00	1.00B6E+00	148.0	1.7621E+00	1.3764E+00
	1.0009E+00	90.06	9.29555-01	1.0087E+00	150.0	8.0807E-01	1.5340E+00
.9210E-01	1.00C2E+00	95.0	9.96356-01	1.0073E+00	152.0	6.0302E-01	1.7039E+00
	1.0000E+00	94.0	1.0634E+00	1.0122E+00	154.0	2.2962E+00	1.5610E+00
+	1.0008E+00	96.0	9.0590E-01	1.0119E+00	156.0	1.55136-01	2.2052E+00
•	1.0010E+00	98.0	1.0087E+00	1.0112E+00	158.0	1.85462+00	1.9178E+C0
1	1.0002E+00	100.0	1.0668E+00	1.0174E+00	160.0	2.53928+00	2.4447E+00
+	1.0002E+00	102.0	8.7173E-01	1.0162E+00	162.0	1.74HBE-01	3.4152E+00
+	1.0012E+00	104.0	1.0423E+00	1.0175€+00	164.0	4.39º8E+00	2.3113E+00
•	1.0011E+00	106.0	1.0501E+00	1.0247E+00	166.0	3.8478E+00	6.3201E+00
	1.0003E+00	108.0	8.3467E-01	1.0227E+00	168.0	1.6047E+00	4.5546E+00
	1.0008E+00	110.0	1.1027E+00	1.0276E+00	170.0	1.5338E+01	8.5451E+00
•	1.00175+09	112.0	9.9215E-01	1.0347E+00	172.0	1.4627E+01	2.4204E+01
	1.0010E+00	114.0	8.1976E-01	1.0334E+00	174.0	1.33506+01	5.7920E+00
.0063E+00	1.0006E+00	116.0	1.1794E+00	1.0430E+00	176.0	2.5964E+02	1.9145E+02
	1.001BE+00	118.0	8.7348E-01	1.0484E+00	178.0	8.58136+02	8.1107E+02
	1.0019E+00	120.0	8.7268E-01	1.0520E+00	180.0	1.2214E+03	1.2214E+03
	1 00005+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

一、こうには 見 スン・ストップ 自己のいかいかいかい 目し

KA=34.8

NORMALIZED CROSS SECTION	H-PLANE		1.0637E+00	1.0701E+00	1.0816E+00	1.0932E+00	1.1083E+00	1.1266E+00	1.13746+00	1.1789E+00	1.1824E+00	1.2288E+00	1.2827E+00	1.2679E+00	1.4242E+00	1.3892E+00	1.5075E+00	1.7246E+00	1.5483E+00	2.1811E+00	1.9674E+00	2.3578E+00	3.4817E+00	2.2805E+00	6.2101E+00	4.7816E+00	8.1095E+00	2.4533E+01	5.6716E+00	1.88B0E+02	8.1646E+02	1.23546+03	
NORMAL1ZED	E-PLANE		1.2378E+00	7.8118E-01	9.19548-01	1.24318+00	5.809BE-01	1.1997 1.00	1.0272E+00	5.5593E-01	1.49748+00	5.8546E-01	9.1786E-01	1.50611+00	2.10688-01	1.6428E+00	1.0013E+00	4.35658-01	2.3319€ +00	2.7049E-01	1.6350E+00	2.7141E+00	1.4494E-01	4.2067E+30	4.10675+00	1.4344E+00	1.5016E+01	1.5293E+01	1.2322E+01	2.57136+02	8.6430E+02	1.2354E+03	
	ANGLE	1 1 1 1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE	24-1-1-1-1	1.00126+03	1.0028E+00	1.0023E+00	1.0015E+00	1.0033E+00	1.0036E+00	1.0022E+00	1.0041£+00	1.0051E+00	1.0033E+00	1.0054E+00	1.0070E+00	1.0049E+00	1.0076E+00	1.0095E+00	1.0072€+00	1.0110E+00	1.0129€+00	1.0107E+00	1.0164E+00	1.0175E+00	1.0164E+00	1.0242E+00	1.0238E+00	1.0260E+00	1.0348E+00	1.0338E+00	1.0414E+00	1.0491E+00	1.0512E+00	
NORMALIZED C	E-PLANE	1-6-1-1-1	1.0148E+00	1.0139E+00	9.6944E-01	1.0020E+00	1,0285E+00	9.6927E-01	9.8712E-01	1.0398£+00	9.7096E-01	9.7260E-01	1.0498E+00	9.69816-01	9.6011E-01	1.0618E+00	9.6108E-01	9.5213E-01	1.0776E+00	9.3911E-01	9.5450E-01	1.0946E+00	8.9874E-01	9.7846E-01	1.1007E+00	8.4149E-01	1.0381E+00	1.0699E+00	7.8798E-01	1.1366E+00	9.67496-01	7.9015E-01	
	ANGLE		62.0	64.0	99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	98.0	0.06	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE		1.0083E+00	1.0064E+09	1.0023E+00	9.99495-01	9.99395-01	1.0005E+00	1.003RE+00	1.0000E+00	9.9971E-01	1.0004E+00	1.0009E+00	1.0003E+00	9.99695-01	1.0002E+00	1.0010E+00	1.0006E+00	9.99946-01	1.0003E+00	1.0010E+00	1.0006E+00	1.0001E+00	1.0008E+00	1.0013E+00	1.0006E+00	1.0004E+00	1.0014E+00	1.0015E+00	1.0006E+00	1.0013E+30	1.0022E+00	1.0013E+00
NORMAL! ZED C	E-PLANE		1.0083E+00	1.00315+00	9. 9496E-01	9.9332E-01	1.0024E+00	1.0045E+00	9.9650F-91	9.9549E-01	1.00195+00	1.0065E+00	9.5934E-01	9.9168E-01	9.9881E-01	1.0C98E+00	1.0036E+00	9.9029E-01	9.9570E-01	1.0099E+00	1.0030E+00	9.88516-01	9.9926E-01	1.013EE+00	9.97296-01	9.8469E-01	1.0069E+00	1.0130E+00	9.8515E-01	9.9104E-01	1.0203E+00	9.97765-01	9.7634E-01
	ANGLE	-	0.0	5.0	9	9.0	9.0	10.0	12.0	14.0	15.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	4	46.0	46.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=35.0

IOSS SECTION	H-PLANE		1.0626E+00	1.0703E+00	1.0805E+00	1.0931E+00	1.1065E+00	1.1272E+00	1.1357E+00	1.1767E+00	1.1854E+00	1.2208E+00	1.2878E+00	1.2643E+00	1.4153E+00	1.4040E+00	1.4818E+00	1.7409E+00	1.5427E+00	2.1499E+00	2.0208E+00	2.2739E+00	3.5376E+00	2.2657E+00	6.0847E+00	5.0159E+00	7.6843E+00	2.4830E+01	5.6013E+00	1.8612E+02	8.2181E+02	1.2495E+03	
NORMALIZED CROSS SECTION	E-PLANE		1.20775+00	8.81495-01	8.0775E-01	1.2961E+00	6.2565E-01	1.0755E+00	1.1633E+00	4.8702E-01	1.4526E+00	7.2689E-01	7.5061E-01	1.6059E+00	2.3614E-01	1.49:10E+00	1.1957E+00	2.9436E-01	2.3305E+00	4.1296E-01	1.4126E+00	2.86882+00	1.4367E-01	3.9969E+00	4.3588E+00	1.2910E+00	1.4671E+01	1.5953E+01	1.1349E+01	2.5458E+02	8.7043E+02	1.2495E+03	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
IOSS SECTION	H-PLANE		1.0010E+00	1.0022E+00	1.0029E+00	1.3016E+00	1.0026E+00	1.0040E+00	1.0025E+00	1.0033E+00	1.0054E+00	1.0038£+00	1.0045E+00	1.0073E +00	1.0055E+00	1.0065E+00	1.0099E+00	1.0077E+00	1.0097E+00	1.0136E+00	1.0110E+00	1.0150E+00	1.0185£+00	1.0161E+00	1.0230E+00	1.0251E+00	1.0249E+00	1.0344E+00	1.0346E+00	1.0398E+00	1.0494E+0C	1.0509E+00	
NORMALIZED CROSS SECTION	E-PLANE		9.9625E-01	1.0254E+00	9.82136-01	9.8030E-01	1.0315E+00	9.9138E-01	9.6538E-01	1.0342E+00	1.0001E+00	9.5134E-01	1.0376E+00	1.0055E+00	9.3705E-01	1.0464E+00	1.0036E+00	9.2239E-01	1.0644E+00	9.8797E-01	9.1169E-01	1.0923E+00	9.4945E-01	9.1760E-01	1,1223E+00	8.8131E-01	9.6193E-01	1.1278E+00	7.9424E-01	1.0641E+00	1.0614E+00	7.3850E-01	
	ANGLE	1 1 1 1	62.0	64.0	0.99	68.0	10.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION	H-P! ANE	161111111	1.0163E+00	1.0133E+00	1.0063E+00	1.0001E+00	9.9801E-01	9.9941E-01	1.00:1E+00	1.0010E+00	9.9989E-01	9.9958E-01	1.0005E+00	1.3008E+00	1.0001E+00	9.9990E-01	1.0006E+00	1.0009E+00	1.0002E+00	9.99968-01	1.0008E+00	1,00106+00	1.0003E+C0	1.0003E+00	1.0012E+00	1.0011E+C0	1.00C3E+00	1.0009E+00	1.0017E+00	1.0009E+00	1.0008E+00	1.0021E+00	1.0019E+00
NORMALIZED CROSS SECTION	E-PLANE		1,01535.00	1.0076E+C0	9.9172E-31	9.3707E-01	9.9806E-01	1.00965+00	1.0065E+00	9.94896-01	9.93038-01	1.00298+00	1.0C68E+00	9.978SE-01	9.93386-01	1,0031E+U0	1.0082E+00	9.9526E-01	9.8994E-01	1.0041E+30	1.0110E+00	9.9457E-01	9.8951E-01	1.00855+00	1.0054E+00	9.86315 -01	9.94175-01	1.0169E+00	9.9336E-01	9.8100E-01	1.0109E+00	1.0137E+00	9.768SE-01
	Arigle		0.0	2.0	0.	0.9	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

NORMALIZED CROSS SECTION	H-PLANE		1.0613E+00	1.0705E+00	1.0795E+00	1.0930E+00	1.1049E+00	1.1273E+00	1.1347E+00	1.1736E+00	1.1890E+00	1.2132E+00	1.2910E+00	1.2636E+00	1.4037E+00	1.4200E+00	1.4579E+00	1.7522E+00	1.5441E+00	2.1126E+00	2.0764E+00	2.1945E+00	3.5822E+00	2.2669E+00	5.9452E+00	5.2554E+00	7.2713E+00	2.5096E+01	5.5803E+00	1.8342E+02	8.2711E+02	1.2637E+03	
NORMAL12ED (E-PLANE		1.1407E+00	9.9302E-01	7.1821E-01	1.3063E+00	7.0889E-01	9.3953E-01	1.2775E+00	4.6156E-01	1.36585+00	8.8496E-01	5.9947E-01	1.6662E+00	3.0316E-01	1.3230E+00	1.3828E+00	1.84195-01	2.2924E+00	5.7842E-01	1.1922E+00	3.0005E+00	1.7076E-01	3.772BE+00	4.6017E+00	1.1749E+00	1.4303E+01	1.6606E+01	1.04325+01	2.5197E+02	8.7653E+02	1.2637E+03	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE		1.0012E+00	1.0016E+00	1.0030E+00	1.0021E+00	1.0019E+00	1.0039E+00	1.0032E+00	1.0026E+00	1.0051E+00	1.0046E+00	1.0038E+00	1.0069E+00	1.0064E+00	1.0056E+00	1.0097E+00	1.0087E+00	1.0086E+00	1.0136E+00	1.0118E+00	1.0135E+00	1.0190E+00	1.0164E+00	1.0214E+00	1.0261E+00	1.0243E+00	1.0333E+00	1.0357E+00	1.0384E+00	1.0493E+00	1.0511E+00	
NORMALIZED C	E-PLANE	1111111	9.7969E-01	1.0227E+00	1,0031E+00	9.6799E-01	1.0183E+00	1.0161E+00	9.58756-01	1.0123E+00	1.0275E+00	9.4934E-01	1.0091E+00	1.0369E+00	9.3622E-01	1.0127E+00	1.0421E+00	9.1678E-01	1.0283E+00	1.0372E+00	8.9271E-01	1.0611E+00	1.0099E+00	8.7537E-01	1.1100E+00	9.4447E-01	8.9115E-01	1.1540E+00	8.3688E-01	9.7601E-01	1.1388£+00	7.2600E-01	
	ANGLE	11111	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION	H-PLANE		1.0086E+00	1.0074E+00	1.0043E+00	1.0008E+00	9.9876E-01	9.3911E-01	1.0007E+00	1.0013E+00	1.0004E+00	9.9947E-01	9.99948-01	1.0009E+00	1.0007E+00	9.9994E-01	1.0001E+00	1.0008E+00	1.0007E+00	1.0000E+00	1,0003E+00	1.0011E+00	1.0007E+00	1.0001E+00	1.0008E+00	1.0014E+00	1.0006E+00	1.0005E+00	1.0015E+00	1.00155+00	1.0006E+00	1.0016E+00	1.0023E+00
NORMALIZED CROSS SECTION	E-PLANE		1.0086E+03	1.0049E+00	9.9675E-01	9.9170E-01	9.9557E-01	1.0057E+00	1,0082E+00	9.98875-01	9.90946-01	9.9738E-01	1.0086E+00	1.0055E+00	9.9322E-01	9.94165-01	1.0065E+00	1.0053E+00	9.9211E-01	9.9530E-01	1.01045+00	1.0041E+00	9.8726E-01	9.97695-01	1.0137E+00	9.96895-01	9.8522E-01	1.0096E+00	1.0119E+00	9.8212E-01	9.9476E-01	1.0211E-00	9.8996E-01
	ANGLE		0.0	2.0	4	0.9	0.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	0.44	46.0	48.0	50.0	52.0	94.0	56.0	58.0	69.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=35.4

OSS SECTION	H-PLANE		1.0600E+00	1.0706E+00	1.0786E+00	1.092BE+00	1.1036E+00	1.1270E+00	1.1346E+00	1.1697E+00	1.192BE+00	1.2066E+00	1.2921E+00	1.2657E+00	1.3898E+00	1.4363E+00	1.4368E+00	1.7580E+00	1.5523E+00	2.0700E+00	2.132BE+00	2.1210E+00	3.6147E+00	2.2836E+00	5.7928E+00	5.4982E+00	6.8722E+00	2.5330E+01	5.6080E+00	1.8069E+02	8.3237E+02	1.2780E+03	
NORMALIZED CROSS SECTION	E-PLANE		1.0476E+00	1.0994E+00	6.6284E-01	1.2726E+00	8.2059E-01	B.0666E-01	1.3586E+00	4.8148E-01	1.2474E+00	1.0475E+00	4.7465E-01	1.6836E+00	4.07716-01	1.1381E+00	1.5545E+00	1.0898E-01	2.2186E+00	7.6214E-01	9.7875E-01	3.1066E+00	2.2551E-01	3.5358E+00	4.8333E+00	1,0863E+00	1.3915E+01	1.7249E+01	9.5714E+00	2.4933E+02	8.8259E+02	1.2780E+03	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
MORMALIZED CROSS SECTION	H-PLANE		1.0017E+00	1.0012E+00	1.0028E+00	1.0027E+00	1.00162+00	1.0034F+00	1.0039E+00	1.0024E+00	1.0044E+00	1.0054E+00	1.0036E+00	1.0061E+00	1.0073E+00	1.0053E+C0	1.0088E+00	1.0097E+00	1.0080E+00	1.01296+00	1.0129E+00	1.0124E+00	1.0188E+00	1.0174E+00	1.0199E+00	1.0267E+00	1.0245E+00	1.0318E+00	1.0367E+00	1.0374E+00	1.0487E+00	1.0515E+00	
NORMALIZED C	E-PLANE		9.7395E-01	1.0072E+00	1.0212E+00	9.7105E-01	9.9540E-01	1.0317E+00	9.7011E-01	9.8428E-01	1.0414E+00	9.6715E-01	9.7594E-01	1.0518E+00	9.57516-01	9.7298E-01	1.0633£+00	9.36765-01	9.8123E-01	1.0716E+00	9.0285E-01	1.0101E+00	1.0636E+00	8.6242E-01	1.0675E+00	1.0160E+00	8.4141E-01	1.1435E+00	9.0703E-01	8.8891E-01	1.1861E+00	7.5429E-01	
	ANGLE		62.0	64.0	0.99	68.0	70.0	72.0	74.0	16.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION	H-PLANE		9.9297E-01	9.9477E-01	9.9850E-01	1.0010E+00	1.0009E+00	9.9982E-01	9.9978E-01	1.0006E+00	1.0007E+03	9.99085-01	9.9973E-01	1.0005E+00	1.0009E+00	1.0003E+00	9.9979E-01	1.0004E+00	1.0010E+00	1.0004E+00	1.0000E+00	1.0008E+00	1.0011E+00	1.0003E+00	1.0003E+00	1.0013E+C0	1.0011E+00	1.0004E+00	1.0011E+00	1.0018E+00	1.0009E+00	1.0010E+00	1.0023E+00
NORMALIZED C	E-PLANE	11111111	9.9297E-01	9.9782E-01	1.0052E+00	1.0043E+00	9.97E0E-01	9.9662E-01	1.0026F+00	1,0042E+00	9.97301-01	9.9443E-C1	1.00230+00	1.0081F+00	9.98645-01	9.9044E-91	1.0001E+00	1.0102E+00	1.0000E+00	9.89696-01	1.0020E+00	1.01055+00	9.94165-01	9.88325-01	1.0096F+00	1.00905+00	9.85586-01	9.95985-01	1.0173E+00	9.93535-01	9.6162E-01	1.0159E+00	1.0080E+00
	ANGLE		0.0	7.0	0.4	0.9	9.0	10.0	12.0	14.0	16.0	18.0	26.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

The state of the s

KA=35.6

9.8478E-01 9.8478E-01 9.9459E-01 1.00038+00 1.00238+00 1.00238+00 1.00038+00 1.00038+00 1.00038+00 1.00078+00 1.00078+00 1.00078+00 1.00078+00 1.00078+00 1.00078+00 1.00078+00 1.00078+00 1.00078+00 1.0008	į	NORMAL 12ED C	ZED CROSS SECTION	U 22	NORMALIZED C	NORMALIZED CROSS SECTION	ANG.	NORMALIZED F-PLANE	MORMALIZED CROSS SECTION FEDERAL
9.9478E-01 9.9478E-01 9.9377-01 9.9377-01 9.9377-01 9.9376-01 9.9376-01 9.9376-01 9.9376-01 9.9376-01 9.9376-01 9.9376-01 9.9088E-01 1.00028E+00 9.9088E-01 1.00028E+00 9.9088E-01 1.00078E+00 9.90928E-01 1.00078E+00 9.9093E-01 1.00078E+00 9.9093E-01 1.00078E+00 9.9093E-01 1.00078E+00 9.9093E-01 1.00078E+00 9.9093E-01 1.00078E+00 9.9099E-01 9.9089E-01 1.00078E+00 9.9099E-01 1.00078E+00 9.9099E-01 1.00078E+00 9.9099E-01 1.00078E+00 9.9099E-01 9.9099E-01 1.00078E+00 9.9099E-01 9.9099E-01 1.00078E+00 9.9099E-01 1.00078E+00 9.9099E-01 1.00078E+00 9.9099E-01 1.00078E+00 9.9099E-01 1.00078E+00 9.9079E-01 1.00078E+00 9.9079E-01 1.00078E+00 9.9079E-01 1.00078E+00 9.9079E-01 1.00078E+00 9.9079E-01 1.00078E+00 9.9079E-01 1.00078E+00 1.00078	ا بسا	E-PLANE	HAPLANE	ANGLE	בו הואנים	R-FCANE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
9.9337E-01 1.00126+00 1.00126+00 1.00126+00 1.00126+00 1.00126+00 1.00126+00 1.00126+00 1.00126+00 1.00126+00 1.00126+00 1.00126+00 1.00126+00 1.00126+00 1.00126+00 1.00026-01			9 8278F-01	62.0	9.8181E-01	1.0022E+00	122.0	9,43165-01	1.0587E+00
1.00335.00 1.00335.00 1.00035F-00 1.00035F	c	9.9337E-01	9.87785-01	64.0	9.875.0E-01	1.0011E+00	124.0	1.18 25+00	1.07C5E+00
1.0126E+00 1.0005E+00 70.0 9.875E-01 1.0003E+00 70.0 9.745E-01 1.0003E+00 70.0 9.745E-01 1.0003E+00 70.0 9.745E-01 1.0003E+00 72.0 1.0313E-01 1.0005E+00 72.0 1.0313E-01 1.0005E+00 1.0007E+00 9.9928E-01 76.0 9.695E-01 1.0005E+00 1.0007E+00 78.0 9.9695E-01 1.0005E+00 1.0007E+00 9.993E-01 80.0 9.9695E-01 1.0007E+00 9.993E-01 80.0 9.9695E-01 1.0007E+00 9.993E-01 80.0 9.9595E-01 1.0000E+00 90.0 9.9595E-01 1.0000E+00 90.0 9.9595E-01 1.0000E+00 90.0 9.9596E-01 1.0000E+00 90.0 9.753E-01 1.0007E+00 90.0 9.753E-01 1.0000E+00 90.0 90.0 9.753E-01 1.0007E+00 90.0 90.0 9.3875E-01 1.0007E+00 90.0 90.0 9.3875E-01 1.0007E+00 90.0 90.0 90.0 90.0 9.3875E-01 1.0007E+00 90.0 90.0 90.0 90.0 90.0 90.0 90.0 9	0	1.00385-00	9.9459E-01	96.0	1.0272E+00	1.0022E+00	126.0	6.48×CE-91	1.0778E+00
1.0012E+00 1.0023F+00 70.0 9.7435E-01 9.9038E-01 1.0003E+00 72.0 1.0313E+00 1.0313E+00 9.9038E-01 1.0003E+00 74.0 9.403E-01 1.0005E+00 9.99528E-01 74.0 9.9401E-01 1.0005E+00 9.99528E-01 1.0007E+00 80.0 9.9695E-01 1.0007E+00 80.0 9.9695E-01 1.0005E+00 1.0006E+00 80.0 9.9695E-01 1.0005E+00 1.0006E+00 80.0 9.948E+00 1.0005E+00 1.0006E+00 80.0 9.9254E-01 1.0000E+00 80.0 9.9254E-01 1.0000E+00 80.0 9.9254E-01 1.0000E+00 80.0 9.9254E-01 1.0005E+00 80.0 9.9256E-01 1.0006E+00 80.0 9.9256E-01 1.0006E+00 90.0 9.7531E-01 1.0006E+00 90.0 9.7531E-01 1.0005E+00 90.0 9.7531E-01 1.0005E+00 90.0 9.7531E-01 1.0001E+00 90.0 9.7531E-01 1.0005E+00 90.0 9.7531E-01 1.0007E+00 90.0 9.7531E-01 1.0005E+00 90.0 9.7531E-01 1.0007E+00 90.0 90.0 90.0 90.0 90.0 90.0 90.0 9	0		1.0005E+00	68.0	9.8775E-01	1.0031E+00	129.0	1.1949E+00	1.0925E+00
9.9088E-01 1.0008E+00 72.0 1.0313E+00 1.05313E+00 9.9928E-01 74.0 9.9401E-01 1.005E-01 75.0 9.626E-01 1.005E-01 76.0 9.9401E-01 1.005E-01 9.9937E-01 76.0 9.626E-01 9.9937E-01 80.0 9.9695E-01 9.9937E-01 80.0 9.9695E-01 1.0041E+00 9.9937E-01 84.0 1.048E+00 1.0041E+00 1.0007E+00 80.0 9.955E-01 1.0041E+00 1.0007E+00 80.0 9.955E-01 1.0007E+00 80.0 9.925E-01 1.0007E+00 90.0 1.069E+00 1.0001E+00 90.0 1.0601E+00 1.0008E+00 90.0 1.0601E+00 1.0008E+00 90.0 1.0601E+00 1.0001E+00 90.0 1.0001E+00 90.0 1.0001E+00 90.0 9.925E-01 1.00008E+00 90.0 9.3875E-01 1.0009E+00 90.0 9.3875E-01 1.0009E+00 90.0 9.3875E-01 1.0009E+00 90.0 9.3875E-01 1.0009E+00 1.0001E+00 1.0009E+00 90.0 9.3875E-01 1.0009E+00 1.00009E+00 1.0009E+00 1.0009E+00 1.00009E+00 1.0009E+00 1.00009E+00 1.00009E+00 1.0009E+00 1.00009E+00 1.000009E+00 1.000009E+00 1.000009E+00 1.000009E+00 1.000009E+00 1.000009E+00 1.000009E+00 1.000009E	0.		1.0023E+00	70.0	9.7435E-01	1.0018£+00	130.0	9.4737E-01	1.1025E+00
9.953£-01 9.953£-01 1.0005£-00 1.0005£-00 1.0005£-01 1.	0		1.0008E+00	72.0	1.0313E+00	1.0026E+00	132.0	6.91216-01	1.1261E+00
1.00562E+00 9.9952E-01 76.0 9.6268E-01 1.00562E+00 1.0007E+00 80.0 9.9695E-01 1.0007E+00 80.0 9.9695E-01 1.0007E+00 80.0 9.9695E-01 1.0005E+00 80.0 9.9695E-01 1.0005E+00 1.0005E+00 80.0 9.9695E-01 1.0005E+00 1.0005E+00 80.0 9.9258E-01 1.0005E+00 80.0 9.9258E-01 1.0005E+00 90.0 1.0595E-01 1.0005E+00 90.0 1.0595E-01 1.0005E+00 90.0 1.0595E-01 1.0005E+00 90.0 9.2595E-01 1.0005E+00 90.0 9.2505E-01 1.0001E+00 90.0 9.2505E-01 1.0001E+00 90.0 9.2456E-01 1.0005E+00 10.00 9.2476E-01 1.0005E+00 11.20 1.0989E+00 11.20 1.0989E+00 11.20 1.0096E+00 11.20 1.0096E+00 11.20 1.0005E+00 11.20 1.205E+00 11.2006E+00	6		9.9923E-01	74.0	9.9401E-01	1.0043E+00	134.0	1.3987E+00	1.1352E+00
1.0060E+00 1.0007E+00 80.0 9.060E+00 9.961E=01 1.0007E+00 80.0 9.060E+00 9.961E=01 1.0007E+00 80.0 9.060E+00 1.0004E+00 80.0 9.060E+00 1.0004E+00 1.0006E+00 80.0 9.5153E=01 1.0054E+00 1.0000E+00 80.0 9.951E=01 1.0000E+00 80.0 9.925E=01 1.0000E+00 80.0 9.925E=01 1.0000E+00 80.0 1.0601E+00 80.0 1.0000E+00 80.0 1.0001E+00 80.0 1.0001E+00 80.0 1.0001E+00 80.0 1.0001E+00 80.0 1.0001E+00 80.0 1.0000E+00 1.0	٥		9.9962E-01	76.0	9.6268E-01	1,002BE+00	136.0	5.44%7E-01	1.1654E+00
9.9611E-01 1.0007E+00 80.0 9.9695E-01 9.9468E-01 1.0007E+00 9.9937E-01 84.0 1.0448E-01 1.00041E+00 9.9937E-01 84.0 1.0448E-01 1.0005E+00 1.0006E+00 86.0 9.9254E-01 1.00006E+00 90.0 1.0601E+00 1.0006E+00 90.0 1.0601E+00 1.0006E+00 90.0 1.0601E+00 1.0006E+00 90.0 1.0601E+00 1.0008E+00 90.0 1.0601E+00 90.202E-01 1.0008E+00 96.0 9.3875E-01 1.0008E+00 90.0 9.3875E-01 1.0009E+00 1.0008E+00 90.0 9.3875E-01 1.0003E+00 1.0009E+00 1.0006E+00 1.0007E+00 1.0006E+00 1.0007E+00 1.0006E+00 1.0007E+00 1.0006E+00 1.0007E+00 1.00	0		1.0007E+00	78.0	1.0360E+00	1.0036E+00	138.0	1.104CE+00	1.1964E+00
9.9468E-01 9.9468E-01 1.0045E-00 1.0006E+00 9.9997E-01 1.0006E+00 9.9485E-01 1.0006E+00 9.9485E-01 1.00006E+00 9.9486E-01 1.0006E+00 9.9258E-01 1.0006E+00 9.9258E-01 1.0006E+00 9.920 1.0001E+00 9.920 1.0001E+00 9.920 1.0001E+00 9.920 9.93852E-01 1.0001E+00 9.920 9.93852E-01 1.0001E+00 9.920 9.93852E-01 1.0001E+00 9.09385E-01 1.0001E+00 9.920 9.93852E-01 1.0001E+00 9.93852E-01 1.0001E+00 9.94	0		1.0007E+00	80.0	9.9695E-01	1.0057E+00	140.0	1.2021E+00	1.2014E+00
1.0045E+00 9.9993E-01 84.0 1.0448E+00 1.0045E+00 1.0005E+00 86.0 9.925E-01 1.00005E+00 86.0 9.925E-01 1.00005E+00 86.0 9.4169E-01 1.00005E+00 86.0 9.4169E-01 1.00005E+00 90.0 1.0601E+00 1.0005E+00 90.0 1.0601E+00 1.0008E+00 92.0 9.70 9.735E-01 1.0008E+00 94.0 9.3852E-01 1.00045E+00 96.0 1.0810E+00 9.9250E-01 1.0001E+00 96.0 1.0810E+01 1.00045E+00 100.0 9.5416E-01 1.0005E+00 110.0 9.5416E-01 1.0007E+00 110.0 9.5416E-01 1.0007E-01 1.0007E-01 1.0007E-01 1.0007E-01 1.0007E-01 1.0007E-01 1.0007E-01 1.0009E-00 1.0009E	0		9.99978-01	82.0	9.5153E-01	1.0040E+00	142.0	3.8448E-01	1.2909E+00
1.0054E+00 1.0006E+00 86.0 9.9254E-01 9.9054E-01 1.00076E+00 88.0 9.4254E-01 9.9054E-01 1.00076E+00 90.0 1.0601E+00 90.0 1.0001E+00 90.0 9.3250E-01 1.0008E+00 90.0 90.0 9.3875E-01 1.0008E+00 1.0003E+00 100.0 9.3875E-01 1.0003E+00 1.0003E+00 100.0 9.3875E-01 1.0005E+00 1.0005E+00 1.0056E+00 1.0005E+00 1.0005E+00 1.0056E+00 1.0005E+00 1.0005E+0	0		9.9993E-01	84.0	1.0448E+00	1.0051E+00	144.0	1.65/35+00	1.2703E+00
9.9485E-01 1.0007E+00 88.0 9.4169E-01 9.9485E-01 1.0000E+00 90.0 1.0601E+00 1.0000E+00 90.0 1.0001E+00 1.0000E+00 90.0 1.0001E+00 1.0000E+00 90.0 9.7531E-01 1.0008E+00 90.0 9.7531E-01 1.0001E+00 90.0 9.751E-01 1.0001E+00 90.0 9.751E-01 1.0001E+00 1.0001E+00 90.0 9.741E-01 1.0002E+00 1.0001E+00 1.00	0		1.0006E+00	86.0	9.9254E-01	1.0077E+00	146.0	5.4376E-01	1.3745E+09
9.93865-01 1.0000E+00 90.0 1.0601E+00 1.0001E+00 92.0 9.758+5.01 1.0008E+00 92.0 92.0 9.758+5.01 1.0008E+00 94.0 93.03852E-01 1.0008E+00 94.0 93.03852E-01 1.0008E+00 94.0 9.3852E-01 1.0009E+00 94.0 9.3852E-01 1.0003E+00 10.009E+00 10.000E+00 10.009E+00 10.009E+00 10.000E+00 10.000E+00 10.000E+00 10.009E+00 10.000E+00 10.000E+00 10.009E+00 10.000E+00	0	9.9485E-01	1.0007E+00	98.0	9.4169E-01	1.0057E+00	148.0	9.4853E-01	1.4519E+00
1.0368F+00 1.0000E+00 92.0 9.7531E-01 1.0008F+00 1.0008F+00 94.0 9.3875E-01 1.0008F+00 95.0 94.0 9.3875E-01 1.0008F+00 96.0 1.0810E+00 95.02E-01 1.0008F+00 96.0 1.0810E+01 1.0003E+00 100.0 95.3875E-01 1.0003E+00 1.0003E+00 100.0 9.3875E-01 1.0003E+00 1.0003E+00 100.0 9.3875E-01 1.0003E+00 1.0003E+00 100.0 9.3875E-01 1.0003E+00 1.0003E+00 100.0 9.3875E-01 1.0003E+00 1.0003	0	9.93865-01	1.0000E+00	90.0	1.0601E+00	1.0077E+00	150.0	1.7036E+00	1.4192E+00
1.0775F+C0 1.0008E+00 94.0 9.3852E-01 9.5202E-01 1.0001E+00 96.0 1.0810E+00 95.250E-01 1.0001E+00 98.0 9.3875E-01 1.0001E+00 98.0 9.0 9.3875E-01 1.0001E+00 100.0 95.416E-01 1.0005E+00 100.0 9.5416E-01 1.0005E+00 100.0 9.5416E-01 1.0005E+00 100.0 9.5416E-01 1.0005E+00 100.0 9.3877E-01 1.0002E+00 100.0 100.0 9.3877E-01 1.0005E+00 100.0 100.0 9.347E-01 1.0006E+00 110.0 8.2347E-01 1.0006E+00 110.0 9.987E+00 110.0 9.397E+00 110.0 9.397E+00 110.0 9.3047E-01 1.0006E+00 110.0 9.3047E-01 1.0006E+00 110.0 9.3047E-01 1.0006E+00 110.0 9.3047E-01 110.0 9.3047E-01 1.0006E+00 1.0007E+00 110.0 8.1822E-01 110.0 0.1007E+00 110.0	c	1.036PE+00	1.0000E+00	92.0	9.7531E-01	1.0105E+00	152.0	7.124FE-02	1.7582E+00
9.9202E-01 1.0008E+00 96.0 1.0810E+00 1.0002E+00 1.0003E+00 98.0 1.0810E+00 1.0003E+00 1	٥		1.0008E+00	94.0	9.3852E-01	1.0080E+00	154.0	2.1117E+00	1.5667E+00
9.9250E-01 1.0001E+00 98.0 9.3875E-01 1.00044E-00 1.0003E+00 100.0 9.5416E-01 1.00542E-00 1.0056E+00 100.0 9.5416E-01 1.00551E-00 1.0056E+00 100.0 9.5416E-01 1.0056E+00 100.0 9.5416E-01 1.0056E+00 100.0 9.5416E-01 1.0056E+00 1.0007E+00 1.0056E+00 1.0056E+00 1.0007E+00 1.0056E+00 1.0056	۰		1.0008E+00	0.96	1.0810E+00	1.0118E+00	156.0	9.58936-01	2.0235E+00
1.0094E+00 1.0003E+00 100.0 9.5416E-01 1.0051E+00 1.0003E+00 1.0003E+00 1.0003E+00 1.0003E+00 1.0003E+00 1.0003E+00 1.0003E+00 1.0003E+00 1.0003E+00 1.0005E+00 1.0005E+00 1.0005E+00 1.0005E+00 1.0005E+00 1.0005E+00 1.0005E+00 1.0003E+00 1.0005E+00 1.0003E+00 1.0005E+00 1.0005E+00 1.0005E+00 1.0005E+00 1.0005E+00 1.0005E+00 1.0005E+00 1.0003E+00 1.000	٥		1.0001E+00	0.86	9.38758-01	1.0140E+00	158.0	7.7643E-01	2.1884E+00
1.0651E+00 1.001E+00 102.0 1.0964E+00 109.0 1.0964E+00 109.0 1.00964E+00 100.0 1.00964E+00 100.0 1.00964E+00 1.0002E+00 100.0 1.0056E+00 1.0096E+00 1.0096E+00 1.0096E+00 1.0096E+00 1.0096E+00 1.0096E+00 1.0096E+00 1.0096E+00 1.0006E+00 1142.0 1.0989E+00 1.0016E+00 1.0006E+00 1142.0 9.9047E-01 1.0086E+00 1.0006E+00 1.0006E+00 116.0 9.1913E-01 1.0006E+00 1.0007E+00 116.0 9.1913E-01 1.0006E+00 1.0007E+00 1.	٥		1.0003E+00	100.0	9.5416E-01	1.0119E+00	160.0	3.18576+30	2.0545E+00
9.8774E-01 1.0008E+00 104.0 8.8171E-01 9.8774E-01 1.0005E+00 1.0056E+00 1.0056E+00 1.0056E+00 1.0056E+00 1.0056E+00 1.0056E+00 1.0056E+00 1.0056E+00 1.0056E+00 1.0006E+00 1.0006E+00 1.0006E+00 1.0006E+00 1.0006E+00 1.0006E+00 1.0006E+00 1.0006E+00 1.0006E+00 1.0007E+00 1.0006E+00 1.0007E+00 1.0006E+00 1.0007E+00 1.0006E+00 1.0007E+00 1.000	٥		1.0011E+00	102.0	1.0964E+00	1.0180E+00	162.0	3.068: E-31	3.6347E+00
9.9874E-01 1.0002E-00 106.0 1.0056E+00 1.015E-00 1.015E+00 1.015E+00 1.075EE+00 1.015EE+00 1.075EE+00 1.075EE+00 1.075EE+00 1.075EE+00 1.0014E+00 1.0006E+00 110.0 8.2347E-01 1.0006E+00 110.0 8.2347E-01 1.0006E+00 1.0007E+00 114.0 9.9047E-01 1.0006E+00 1.0017E+00 116.0 8.1913E-01 1.0006E+00 1.0007E+00 116.0 8.1822E-01 1.0206E+00 1.0007E+00 120.0 8.1822E-01 1	o		1.0008E+00	104.0	8.8171E-01	1.0186E+00	164.0	3.2917E+00	2.3153E+00
1.0145E+00 1.0009E+00 108.0 1.0792E+00 19.9486E-01 1.0014E+00 110.0 8.2347E-1 1 10.006E+00 110.0 8.2347E-1 1 10.006E+00 110.0 8.2347E-1 1 10.006E+00 110.0 8.2347E-1 1 10.006E+00 110.0 8.1913E-0 1 1.0096E+0 1 10.017E+00 116.0 8.1913E-0 1 1.0004E+00 1 10.0 8.1822E-0 1 1.0003E+00 1 1.0007E+00 1 10.00 8.1822E-0 1 1.0003E+00 1 1.0003	٥		1.0002E+00	106.0	1.0056E+00	1.0186E+00	166.0	5.05165+00	5.6292E+00
9.9489E-01 1.0014E+00 110.0 8.2347E-01 19.494E-01 1.0096E+00 1.0096E+00 1.0096E+00 1.0096E+00 112.0 9.9494E-01 1.0016E+00 1.0016E+00 1.0016E+00 1.0017E+00 116.0 8.1913E-01 1.0014E+00 1.0007E+00 118.0 1.1954E+00 1.0007E+00 118.0 1.1954E+00 1.0007E+00 1.0	0		1.0009E+00	108.0	1.0792E+00	1.0265E+00	168.0	1.0253E+00	5.7425E+00
9.8494E-01 1.0006E+00 112.0 1.0989E+00 1 1.0118E+00 1.00017E+00 114.0 9.9047E-01 1 1.0086E+00 1.0017E+00 116.0 8.1913E-01 1 9.7957E-01 1.0014E+00 118.0 1.1954E+00 1 1.0013E+00 1.0007E+00 120.0 8.1822E-01 1	0		1.00146+00	110.0	8.2347E-01	1.0252E+00	170.0	1.35096+01	6.4885E+00
1.0119E+00 1.0006E+00 114.0 9.9047E-01 1 1.0086E+00 1.0017E+00 116.0 8.1913E-01 1 9.9957E-01 1.0014E+00 118.0 1.1954E+00 1 1.0015E+00 1.0007E+00 120.0 8.1822E-01 1 1.0206E+00 1.0007E+00	0		1.0006E+00	112.0	1.0989E+00	1.0301E+00	172.0	1.7882E+01	2.5531E+01
1.0086E+00 1.0017E+00 116.0 8.1913E-01 1 9.7957E-01 1.0014E+00 1180 1.1954E+00 1 1.0013E+00 1.0007E+00 120.0 8.1822E-01 1 1.0206E+00 1.0007E+00	0		1.0006E+00	114.0	9.9047E-01	1.0374E+00	174.0	8.7667E+00	5.6834E+00
9.7957E-01 1.0014E+00 118.0 1.1954E+00 1.00018E+00 1.0007E+00 1.0007E+00 120.0 8.1822E-01 1.0206E+00 1.0019E+00	0		1.0017E+00	116.0	8.1913E-01	1.0370E+00	176.0	2.4664E+02	1.7794E+02
1.0013E+00 1.0007E+00 120.0 8.1822E-01 1 1.0206E+00 1.0019E+00	0		1.0014E+00	118.0	1.1954E+00	1.0476E+00	178.0	8.8860E+02	8.3758E+02
1.3208E+00	Ö		1.0007E+00	120.0	8.1822E-01	1.0522E+00	180.0	1,2923£+03	1.2923E+03
	0	1.3208E+00	1.00:9E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

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KA=35.8

NORMALIZED CROSS SECTION E-PLANE H-PLANE	1.0576E+00	1.0702E+00	1.0772E+00	1.0920E+00	1.1018E+00	1.1247E+00	1.1364E+00	1.1609E+00	1.1993E+00	1.1978E+00	1.2874E+00	1.2770E+00	1.3585E+00	1.4658E+00	1.4058E+00	1.7525E+00	1.5867E+00	1.9742E+00	2.2420E+00	1.9963E+00	3.6417E+00	2.3614E+00	5.4557E+00	5.9862E+00	6.1218E+00	2.5698E+01	5.8056E+00	1.7516E+02	8.4275E+02	1.3068E+03	
NORMALIZED E-PLANE	B. 4375E-01	1.2382E+00	6.7759E-01	1.0976E+00	1.0742E+00	6.0553E-01	1.3942E+00	6.446RE-01	9.5062E-01	1.3371E+00	3.3487E-01	1.58918+00	7.0356E-01	7.6343E-01	1.8237E+00	7.2116E-02	1.9753E+00	1.1633E+00	5.9118E-01	3.23515+00	4.1315E-01	3.0402E+00	5.2545E+00	9.91815-01	1.3086E+01	1.8501E+01	8.0184E+00	2.4390E+02	8.945BE+02	1.3068E+03	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1.0025E+00	1,0015E+00	1,0015E+00	1.0032E+00	1.0024E+00	1,0020E+00	1.0041E+00	1.0035E+00	1.0029E+00	1.0055E+00	1.0048E+00	1.0043E+00	1.0076E+00	1.0065E+00	1.0066E+00	1.0106E+00	1.0087E+00	1.0105E+00	1.0146E+00	1.0120E+00	1.0166E+00	1.0197E+00	1,0179E+00	1.0257E+00	1.0263E+00	1.0286E+00	1.0377E+00	1.0371E+00	1.0462E+00	1.0528E+00	
NORMALIZED E-PLANE	9.98756-01	9.7413E-01	1.0185E+00	1.0096E+00	9.6544E-01	1,0151E+00	1,0192E+00	9.5688E-01	1.0140E+00	1.0261E+00	9.4546E-01	1.0188E+00	1.0280E+00	9.3006E-01	1.0341E+00	1.0194E+00	9.1386E-01	1.0628E+00	9.8951E-01	9.0902E-01	1.0997E+00	9.2786E-01	9.3956E-01	1.1194E+00	8.40855-01	1.0300E+00	1.0705£+00	7.79526-01	1.1654E+00	9.068CE-01	
ANGLE	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	9.91775-01	9.9301E-01	9.9622E-01	9.9980E-01	1.0017E+00	1.0012E+00	9.9965E-01	9.9928E-01	1.0003E+00	1.0011E+00	1.0004E+00	9.99705-01	1.0001E+00	1.0008E+00	1.0005E+00	9.9995E-01	1.0004E+00	1.0010£+00	1.0005E+00	1.0000E+00	1.000BE+00	1.0011E+00	1.0004E+00	1.0004E+00	1.0014E+00	1.0011E+00	1.0004E+00	1.0013E+00	1.001BE+00	1.0008E+00	1.0014E+00
NORMALIZED C E-PLANE	9.9177F-01	9.95655-01	+	•	+	- 1	•	•	+	+	- 1	•	1.0080E+00				1.0090E+00			+	1.01218+00	9.94801-01		1.0101E+00	1.0071E+00	9.8356E-01		+	9.8893E-01		1.0208E+00
ANGLE		7.0	4.0	9.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	43.0	50.0	52.0	54.0	56.0	58.0	6 0.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

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KA=36.0

SS SECTION	H-PLANE	1.056BE+00	1.0696E+00	1.0769E+00	1.0913E+00	1.1014E+00	1.122BE+00	1.137BE+00	1.1566E+00	1.2012E+00	1.1960E+00	1.2819E+00	1.2852E+00	1.3427E+00	1.4774E+00	1.3969E+00	1.7412E+00	1.6115E+00	1.9235E+00	2.2919E+00	1.9472E+00	3.6358E+00	2.4209E+00	5.2742E+00	6.2276E+00	5.7735E+00	2.5832E+01	5.9736E+00	1.7237E+02	8.4787E+02	1.3213E+03	
NORMALIZED CROSS SECTION	E-PLANE	7.6483E-01	1.2510E+00	7.4492E-01	9.78935-01	1.1864E+00	5.5864E-01	1.3459E+00	7.7236E-01	7.9829E-01	1.4424E+00	3.2891E-01	1.4835E+00	8.7811E-01	5.9175E-01	1.9098E+00	1.1125E-01	1.8138E+00	1,3695€+00	4.2553E-01	3.2552E+00	5.4266E-01	2.7852E+00	5.4403E+00	9.8556E-01	1.2647E+01	1.9105E+01	7.3265E+00	2.4113E+02	9.0052E+02	1.3213E+03	
	ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE	1.0023E+00	1.0021E+00	1.0012E+00	1.0028E+00	1.0030E+00	1.0018E+00	1.0036E+00	1.0042E+00	1.0027E+00	1.0049E+00	1.0056E+00	1.0040E+00	1.0070E+00	1.0074E+00	1.0060E+00	1.0102E+00	1.0097E+00	1.0094E+00	1.0146E+00	1.0128E+00	1.0152E+00	1.0204E+00	1.0179E+00	1.0244E+00	1.0275E+00	1.0275E+00	1.0373E+00	1.0377E+00	1.0447E+00	1.0534E+00	
NORMALIZED CROSS SECTION	E-PLANE	1.01556+00	9.7420E-01	9.9978E-01	1,0255E+00	9.7269E-01	9.9123E-01	1.0341E+00	9.6912E-01	9.8504E-01	1.0425E+00	9.5994E-01	9.8441E-01	1.0508E+00	9.4202E-01	\$.9468E-01	1.0541E+00	9.1489E-01	1.0231E+00	1.0399E+00	8.8728E-01	1.0730E+00	9.8862E-01	8.8570E-01	1.1276E+00	8.8929E-01	9.5156E-01	1.1312E+00	7.771BE-01	1.1019E+00	1.0051E+00	
	ANGLE	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	98.0	0.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION	H-PLANE	1,0068E+00	1,00518+00	1.0016E+00	9.9942E-01	9.99695-01	1.0007E+00	1.0006E+00	9.99328-01	9.9987E-01	1.0006E+00	1.0007E+00	9.9908E-01	9.9979E-01	1.0006E+00	1.000ºE+00	1.0002E+00	9.9999E-01	1.0007E+00	1.0008E+00	1.0002E+00	1.0004E+00	1.00115+00	1.0008E+00	1.0002E+00	1.0010E+00	1.0014E+00	1.0006E+00	1.0009E+00	1.0019E+00	1.0013E+00	1.0009E+00
NORMALIZED CROSS SECTION	E-PLANE	1.00685+00	1.0022E+00	9.95541-01	9.9594E-01	1.0031E+00	1.0030£+00	9.97135-01	9.9694E-01	1.00408+00	1.0049E+00	9.9584E-01	9.9320E-01	1.0041E+00	1.0087E+00	9.9670E-01	9.9100E-01	1.0039E+00	1.0083E+00	9.9357E-01	9.9277E-01	1.0101E+00	1.0050E+00	9.8628E-01	9.9903E-01	1.0145E+00	9.9246E-01	9.8684E-01	1.0156E+00	1.0040E+00	9.7801E-01	1.0088E+00
	ANGLE	0.0	5.0	0.4	0.9	9.0	0.01	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

AND THE SECURITION OF A PROPERTY OF THE

KA±36.2

OSS SECTION H-PLANE		1.0564E+00	1.068BE+00	1.0766E+00	1.0904E+00	1.1013E+00	1.1206E+00	1.1394E+00	1.1528E+00	1.2019E+00	1.1961E+00	1.2746E+00	1.2943E+00	1.3278E+00	1.4860E+00	1.3929E+00	1.7248E+00	1.6400E+00	1.8727E+00	2.3371E+00	1.9080E+00	3.6170E+00	2.4928E+00	5.0862E+00	6.4648E+00	5.4450E+00	2.59336+01	6.18656+00	1.6956E+02	8.5294E+02	1.3359E+03	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		7.18495-01	1.2272E+00	8.41276-01	8.5917E-01	1.27UCE+00	5.55276-01	1.25916+00	9.15 PE-01	6.6034E-01	1.5102E+00	3.66 4E-01	1.3473E+00	1.0576E+00	4.41746-01	1.95A1E+00	1.86º2E-01	1.6324E+00	1.57186+00	2.8353E-01	3.2452E+00	6.9317E-01	2,5295E+00	5.6072E+00	1.006'E+00	1.2196E+01	1.9692E+01	6.69098+00	2.383:E+02	9.0641E+02	1.3359E+03	
ANGLE	!	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	*****	1.0018E+00	1.0025E+00	1.0013E+00	1.0021E+00	1.0034E+00	1.0021E+00	1.0028£+00	1.0045E+00	1.0030E+00	1.0040E+00	1.0061E+00	1.0042E+00	1.0060E+00	1.0081E+00	1.0060E+00	1.0092E+00	1.0107E+00	1.0088E+00	1.0140E+00	1.0139E+00	1.0139E+00	1.0205E+00	1.0185E+00	1.02295+00	1.0284E+00	1.0270E+00	1.0364E+00	1.0366E+00	1.0432E+00	1.0535E+00	
NORMALIZED C E-PLANE		1.0231E+00	9.87425-01	9.8090E-01	1,0276E+00	9.92175-01	9.7087E-01	1.0320E+00	9.9359E-01	9.6180E-01	1.0396E+00	9.88876-01	9.5512E-01	1,0525E+00	9.7290E-01	9.5576E-01	1.0682E+00	9.40846-01	9.7439E-01	1,0752E+00	8.9472E-01	1.0239E+00	1.0482E+00	8.5705E-01	1.1022E+00	9.5773E-01	8.8014E-01	1.1610E+00	8.1216E-01	1.0166E+00	1.0967E+00	
ANGLE	-	62.0	64.0	99	69.0	0.07	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	90.0	92.0	94.0	96.0	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION H-PLANE		1.0151E+CO	1.0121E-60	1.0053E+00	9,9970E-01	9.9822E-01	9.9982E-01	1.0012E-00	1.0007E+00	9.9972E-01	9.9991E-01	1.0007E+00	1.0005E+00	9.99916-01	1.0001E+00	1.0008E+00	1.0006E+00	9.99445-01	1.0003E+90	1.00108+00	1.0006E+00	1.0001E+00	1.0008E+00	1.0011E+00	1.00C4E+00	1.0005E+00	1.0015£+00	1.00:0E+00	1.0005E+00	1.0016E+00	1.0017E+00	1.00085+00
NORMALIZED CROSS SECTION F-P: ANF H-PLANE		1.01516+00	1.0065E+00	9.91501-01	9.8866E-01	1.0002E+00	1.0093E+00	1.0937E+00	9.9365E-01	9.9577E-01	1.0051E+00	1.0041E+00	9.94995-01	9 9667E-01	1.00685+00	1.00365+00	9.91401-01	9.9624E-01	1.01015-00	1.0026E+00	9.88945-01	1.0000E+00	1.0115E+00	9.9327E-01	9.88905-01	1.0122E+00	1.0056E+03	9.8255E-01	1.0035E+00	1.0150E+00	9.8268E-01	9.91806-01
ANG		0.0	0.7	0.4	0.9	0.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.C	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50 0	52.0	54.0	56.0	58.0	ი.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

CONSTRUCTION CONTRACTOR CONTRACTO

KA=36.4

CROSS SECTION H-PLANE	1.0564E+00	1.067BE+00	1.0766E+00	1.0894E+00	1.1015E+00	1.1183E+00	1.1408E+00	1.1497E+00	1.2013E+00	1.1978E+00	1.2660E+00	1.3036E+00	1.3145E+00	1.4911E+00	1.3936E+00	1.7037E+00	1.6711E+00	1.8231E+00	2.3763E+00	1.8793E+00	3.5857E+00	2.5759E+00	4.8936E+00	6.6960E+00	5.1373E+00	2.59996+01	6.44316+00	1.6673E+02	8.5797E+02	1.3505E+03	
NORMALIZED CRC E-PLANE	7.1160E-01	1.1564E+00	9.5326E-01	7.5339E-01	1.3177E+00	5.95388-01	1.1427E+00	1.0614E+00	5.4815E-01	1.5355£+00	4.4513E-01	1.1889E+00	1.2322E+00	3.2051E-01	1.9675E+00	2.9596E-01	1.4371E+00	1.7647E+00	1.6818E-01	3.2053E+00	8.6218E-01	2.2759E+00	5.75416+00	1.0529E+00	1.1733E+01	2.0262E+01	6.1116E+00	2.3546E+02	9.1226E+02	1.3505E+03	
ANGLE	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
OSS SECTION H-PLANE	1.0012E+00	1.0026E+00	1.0018E+00	1.0016E+00	1.0033E+00	1.0027E+00	1.0022E+00	1.0044E+00	1.0037E+00	1.0033E+00	1.0060E+00	1.0049E+00	1.0051E+00	1.0083E+00	1.0065E+00	1.0080E+00	1.0113E+00	1.0089E+00	1.0128E+00	1.0150E+00	1.0132E+00	1.0199E+00	1.0195E+00	1.0214E+00	1.0288E+00	1.0270E+00	1.0350E+00	1.0396E+00	1.0420E+00	1.0533E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE	1,0174E+00	1.0064E+00	9.7146E-01	1.0149E+00	1.0142E+00	9.6368E-01	1,0142E+00	1.0196E+00	9.54246-01	1.0191E+00	1.0204E+00	9.4220E-01	1.0329E+00	1.0112E+00	9.30796-01	1.0571E+00	9.8303E-01	9.3172E-01	1.0850E+00	9.2886E-01	9.6600E-01	1.0914E+00	8.6035E-01	1.0498E+00	1.0308E+00	8.306BE-01	1,1542E+00	8.7751E-01	9.2468E-01	1.1666E+00	
ANGLE	62.0	64.0	0.99	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION H-PLANE	1.0089E+00	1.0075E+00	1.0040E+00	1.0004E+00	9.9868E-01	9.9940E-01	1.0009E+00	1.0011E+00	1.0000E+00	9.9951E-01	1.0003E+00	1.0009E+00	1.0003E+00	9.9986E-01	1.0004E+00	1.000BE+00	1.0003E+00	1.0000E+00	1.00081+00	1.0009E+00	1.0002E+00	1.0004E+00	1.0012E+00	1.0008E+00	1.0003E+00	1.0012E+00	1.0014E+00	1.0006E+00	1.0011£+00	1.0020E+00	1.0011E+00
ZED	1.00895+00	•		9.91715-01		+	-		9.9188E-01				9.9202E-01					+	-			1.0100E+00	1.0C47E+00		1.0017E+00	1.0145E+00		9.8029E-01	1.0180E+00	9.96898-01	9.7931E-01
ANGLE	0.0	70	4.0	ი.9	9.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	28.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=36.6

	NORMALIZED	NORMALIZED CROSS SECTION		NORMALIZED (NORMALIZED CROSS SECTION		NORMAL IZED	NORMALIZED CROSS SECTION
ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
				11111111				
0.0	9.94385-01	9.94385-01	62.0	1.0018E+00	1.0009E+00	122.0	7.44815-01	1.0566E+00
2.0	9.9863E-01	9.9597E-01	64.0	1,0209E+00	1.0023E+00	124.0	1.0636E+00	1.0667E+00
4	1.0045E+00	9.99155-01	99	9.7512E-01	1.0024E+00	126.0	1.06555+00	1.0766E+00
9	1.0027E+00	1.0010E+00	68.0	9.9423E-01	1.0014E+00	128.0	6.7481E-01	1.0882E+00
6	9.97155-01	1.000E+00	70.0	1.0281E+00	1.0029E+00	130.0	1.3222E+00	1.1017E+00
10.0	9.98125-01	9.9971E-01	72.0	9.7292E-01	1.0033E+00	132.0	6.7424E-01	1.1161E+00
12.0	1,0036E+00	9.99985-01	74.0	9.8940E-01	1.0020E+00	134.0	1.0085E+00	1.1417E+00
14.0	1.0025E+00	1.0037E+00	76.0	1.0353E+00	1.0039E+00	136.0	1.1961E+00	1.1477E+00
15.0	9.9558E-01	1.0005E+00	78.0	9.65336-01	1.0044E+00	138.0	4.70HSE-01	1.1992E+00
18.0	9.9659E-01	9.9979E-D:	80.0	9.8972E-01	1.0030E+00	140.0	1.5168E+00	1.2009E+00
20.0	1.0057E+00	9.9992E-01	82.0	1.041BE+00	1.0055E+00	142.0	5.5856E-01	1.2566E+00
22.0	1.0055E : 00	1.0007E+00	84.0	9.5032E-01	1.0057E+00	144.0	1.0184E+00	1.3123E+00
24.0	9.9417E-01	1.0007E+00	86.0	9.9952E-01	1.0045E+00	146.0	1.3921E+00	1.3035E+00
26.0	9.9332E-01	9.9996E-01	88.0	1.0430E+00	1.0079E+00	143.0	2.3375E-01	1.4923E+00
28.0	1.0061E+00	9.9997E-01	90.0	9.2821E-01	1.0074E+00	150.0	1.93G9E+00	1.3990E+00
30.0	1.0068E+00	1.0007E+00	92.0	1.0249E+00	1.0071E+00	152.0	4.3410E-01	1.6788E+00
32.0	9.9321E-01	1.0007E+00	94.0	1.0277E+00	1.0114E+00	154.0	1.2340E+00	1.7036E+00
34.0	9.94895-01	1.0001E+00	96.0	9.0821E-01	1.0096E+00	156.0	1.9429E+00	1.7761E+00
36.0	1.0089E+00	1.0003E+00	98.0	1.0671E+00	1.0115E+00	158.0	8.1879E-02	2.4086E+00
38.0	1.0021E+00	1.0010E+00	100.0	9.7979E-01	1.0157E+00	160.0	3.1365E+00	1.8613E+00
40.0	9.8821E-01	1.0006E+C0	102.0	9.1504E-01	1.0132E+00	162.0	1.0459E+00	3.5424£+00
42.0	1.0017E+00	1.0001E+00	104.0	1,1073E+00	1.0187E+00	164.0	2.0271E+00	2.6689E+00
44.0	1.0124E+00	1.0009E+00	106.0	8.9439E-01	1.0207E+00	166.0	5.8795E+00	4.6981E+00
46.0	9.923E-01	1.0012E+00	108.0	9.8282E-01	1.0203E+00	168.0	1.1252E+00	6.9194E+00
48.0	9.8997E-01	1.0004E+C0	110.0	1.0924E+00	1.0286E+00	170.0	1.1261E+01	4.8517E+00
50.0	1.0137E+00	1.0007E+00	112.0	8.1329E-01	1.0277E+00	172.0	2.0811E+01	2.6031E+01
52.0	1.0014E+00	1.0016E+00	114.0	1.1128E+00	1.0335E+00	174.0	5.5884E+00	6.7422E+00
54.0	9.81586-01	1.0009E+00	116.0	9.6063E-01	1.0403E+00	176.0	2.3257E+02	1.638BE+02
56.0	1.0092E+00	1.0007E+00	118.0	8.4252E-01	1.0412E+00	178.0	9.1807E+02	8.6294E+02
58. c	1.0122E+00	1.0019E+00	120.0	1.2034E+00	1.0527E+00	180.0	1.3653E+03	1.3653E+03
60.0	9.78126-01	1.0016E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

The second of th

KA=36.8

VORMALIZED CR E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED C	NORMALIZED CRUSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED E-FLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
	101111111111111111111111111111111111111		0 8480F-01	1 00105+00	122 0	B 125.4E-01	1.05705+00
	9.8392E-01	64.0	1.0234E+00	1.0017E+00	124.0	9.5747E-01	1.0655E+00
	9.95508-01	0.99	9.9235E-01	1.0027E+00	126.0	1.1628E+00	1.0766E+00
	1.0009E+00	0.89	9.7615E-01	1.0016E+00	128.0	6.3313E-01	1.0871E+00
	1.0020E+00	70.0	1.0273E+00	1.0022E+00	130.0	1.2839E+00	1.1020E+00
	1.0004E+00	72.0	9.9397E-01	1.0036E+00	132.0	7.829EE-01	1.1140E+00
	9.9927E-01	74.0	9.6891E-01	1.0023E+00	134.0	8.7016E-01	1.1421E+00
00+	9.9993E-01	16.0	1.0340E+00	1.0031E+00	136.0	1.3076E+00	1.1467E+00
00+	1.00088+00	78.0	9.8990E-01	1.0048€+00	138.0	4.34655-01	1.1959E+00
9.9464E-01	1.0005E+00	80.0	9.63736-01	1.0032E+00	140.0	1,4558E+00	1.2052E+00
10-	9.9984E-01	82.0	1.0445E+00	1.0046E+00	142.0	6.99186-01	1.2470E+00
0	1.0002E+00	84.0	9.7599E-01	1.0064E+00	144.0	8.46196-01	1.3199E+00
00+	1.0007E+00	86.0	9.6519E-01	1.0045E+00	146.0	1.5287E+00	1.2953E+00
-01	1.0004E+00	88.0	1.0570£+00	1.0071E+00	148.0	1.85435-01	1.4895E+00
=	9.9988E-01	90.06	9.48655-01	1.0083E+00	150.0	1.8681E+00	1.4086E+00
2	1.0004E+00	92.0	9.8286E-01	1.0066E+00	152.0	5.9594E-01	1.6510E+00
2	1.0009E+00	94.0	1.0606E+00	1.0108E+00	154.0	1.02º7E+00	1.7363E+00
5	1.0004E+00	96.0	9.1087E-01	1.0106E+00	156.0	2.1015E+00	1.7328E+00
8	1.0000E+00	98.0	1.0271E+00	1.0104E+00	158.0	2.6333E-02	2.4331E+00
00	1.0007E+00	100.0	1.0329E+00	1.0158E+00	160.0	3.0399E+00	1.8541E+00
-01	1.0009E+00	102.0	8.8467E-01	1.0137E+00	162.0	1.24:15.6+00	3.4878E+00
-01	1.0003E+00	104.0	1.0922E+00	1.0173E+00	164.0	1.7859E+00	2.7704E+00
00	1.00.35E+00	106.0	9.5045E-01	1.0217E+00	166.0	5.9824E+00	4.5014E+00
00+	1.0013E+00	108.0	9.1708E-01	1.0197E+00	168.0	1.2220E+00	7.1335E+00
٠ و	1.0008E+00	110.0	1.1289E+00	1.0278E+00	170.0	1.0782E+01	4.5891E+00
8	1.0004E+00	112.0	8.31216-01	1.0287E+00	172.0	2.1338E+01	2.6029E+01
90	1.0013E+00	114.0	1.0452E+00	1.0319E+00	174.0	5.1211E+00	7.0827E+00
-	1.0014E+00	116.0	1.0458E+00	1.0408E+00	176.0	2.2965E+02	1.6102E+02
<u>-</u>	1.0006E+00	118.0	7.8448E-01	1.0409E+00	178.0	9.2384E+02	8.6787E+02
8	1.0014E+00	120.0	1.2012E+00	1.0517€+00	180.0	1.3801E+03	1.3801E+03
ē	1.0020E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=37.0

	: E-PLANE		9.0392E-01	8.5373E-01 1	1.2321E+00 1	9	130.0 1.2078E+00 1.1022E+00	9.0953E-01 1	7.4140E-01 1	136.0 1.3858E+00 1.1467E+00	_	1.3574E+00 1	_	144.0 6.8297E-01 1.3257E+00	146.0 1.6346E+00 1.2902E+00	1.7762E-01 1	_	٦	•	156.0 2.2361E+00 1.6943E+00	158.0 2.5523E-03 2.4493E+00	_	1.45168+00	1.5550E+00 2	6.0618E+00	1.3424E+00	1.0298E+01	172.0 2.1843E+01 2.5993E+01	174.0 4.7093E+00 7.4632E+00	2.26698+02	9.2956E+02	180.0 1.30515403 1.30515403
COO SECTION	H-ULANE		1.0014E+00	1.0012E+00	1.0027E+00	1.0021E+00	1.0017E+00	1.0035E+00	1.0029E+00	1.0025E+00	1.004BE+00	1.0038E+00	1.0038E+00	1.0065E+00	1.0050E+00	1.0061E+00	1.0088E+00	1.0067E+00	1.0098E+00	1.0115E+00	1.0098E+00	1.0153E+00	1.0147E+00	1.0160£+00	1.0221E+C0	1.0198E+00	1.0265E+00	1.0298E+00	1.0307E+00	1.0407E+00	1.0411E+00	1.0504E+10
C Diese CHOOS SECTION	E-PLANE	1 1 1 1 1 1 1 1	9.7591E-01	1.0129£+00	1.0116E+00	9.6970E-01	1.0125E+00	1.0166E+00	9.6200E-01	1.0165E+00	1,0171E+00	9.5192E-01	1.0279E+00	1.0090E+00	9.4280E-01	1.0484E+00	9.8471E-01	9.4511E-01	1.0714E-00	9.3849E-01	9.77056-01	1.0732E+00	8.8278E-01	1.0505E+00	1.0145E+00	8.6786E-01	1.1327E+00	8.80286-01	9.6521E-01	1.1170€+00	7.6056E-01	1 1610F+00
	ANGLE	*****	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.06	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0
NORMALIZED CROSS SECTION	H-PLANE		9.9153E-01	9.9296£-01	9.9650E-01	1.0001E+00	1.0017E+00	1.0008E+00	9.9944E-01	9.9949E-01	1.0006E+00	1.0009E+00	1.0001E+00	9.99746-01	1.0004E+00	1.0007E+00	1.0002E+00	1.0000E+00	1.0007E+00	1.0007E+00	1.0001E+00	1.0003E+00	1.0010E+00	1.0006E+00	1.0002E+00	1.0010E+00	1.0012E+00	1.0004E+00	1.0009E+00	1.0016E+00	1.00CBE+00	1 00105±00
NUKWALIZEDI	E-PLANE		9.91535-01	9.9590E-01	1.0048E+00	1.0086E+00	1.0020E+00	9.9309E-01	9.9479E-01	1.90525+00	1.0075E+00	9.9719E-01	9.9219E-01	1.0018E+00	1.0076E+00	9.9797E-01	9.9326E-01	1.0043E+00	1.0064E+00	9.9269E-01	9.9428E-01	1.0100E+00	1.0030E+00	9.8793E-01	1.0024E+00	1.0114E+00	9.8944E-01	9.9212E-01	1.01595+00	9.9686E-01	9.8318E-01	1.01525+00
	ANGLE		0.0	5.0	4.0	0.9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	20.0	52.0	54.0	56.0	58.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=37.2

NORMALIZED CROSS SECTION	•	-	•	-		-	_	_	00 1.1476E+00	01 1.1B65E+00	-	_	1.32936+00	00 1.2884E+00	01 1.4728E+00	-	-	-	00 1.6616E+00	02 2.4568E+00	00 1.8718E+00	3.3484E+00	30 2.9926E+00	•	_	30 4.1361E+00	-	30 7.8826E+00	_	32 8.7757E+02	13 1.4101E+03	
NORMALIZE		1 00455+00	7 67475-0	1 26136+00	6 7486F-0	1.1032F+00	1.0401E+00	6.3502E-91	1.4239E+00	4.9258E-01	1.2294E+00	1.0206E+00	5.3869E-01	1.7040E+00	2.1039E-01	1.6299E+00	9.6512E-01	6.4312E-01	2.3433E+00	1.0816E-02	2.7714E+00	1.6651E+00	1.3368E+00	6.1172E+00	1.4852E+00	9.8097E+00	2.2323E+0	4.3526E+00	2.2370E+02	9.3523E+02	1.4101E+03	
E SNA	1000	122 0	400	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
CARALIZED CROSS SECTION	TELANE	1 00106+00	00.000	* 0003E+00	1 0026F+00	1 00155+00	1.00305+00	1.0035E+00	1.0023E+00	1.0043E+00	1.0045E+00	1.0034E+00	1.0062E+00	1.0058E+00	1.0053E+00	1.0089E+00	1.0073E+00	1.0087E+00	1.0122E+00	1.0098E+00	1.0143E+00	1.0158E+00	1.0149E+00	1.0220E+00	1.0205E+00	1.0250E+00	1.0307E+00	1.0300E+00	1.0401E+00	1.0417E+00	1.0491E+00	
NORMALIZED	FIFTANE	100000000000000000000000000000000000000	0.00000	1 02405+00	9 7782F-01	9 91035-01	1.0300E+00	9,71558-01	9.9084E-01	1.0354E+00	9.5903E-01	9.9902E-01	1.0366E+00	9.40595-01	1.02085+00	1.0236E+00	9.2418E-01	1.0569E+00	9.82196-01	9.3185E-01	1.0895E+00	9.0948E-01	9.9310E-01	1.07085+00	8.4645E-01	1.1033E+00	9.4988E-01	8.8891E-01	1,1611£+00	7.7464E-01	1,0899E+00	
N CON	N C	6 6 4	. 70	9.49	9 6	20.02	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	98.0	90.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE	00.000	00110001	00+36500.1	0010000	10.3446.0	1 00075+00	1.0003E+00	9.9973E-01	1.0001E+00	1.0007E+00	1.0005E+00	9.99785-01	1.0000E+00	1.0008E+00	1.0006E+00	9.9995E-01	1.0003E+00	1.000BE+00	1.0004E+00	1.0001E+00	1.0008E+00	1.0010E+00	1.0003E+00	1.0006E+00	1.0013E+00	1.0007E+00	1.0005E+00	1.0015E+00	1.0013E+00	1.0007E+00	1.0018F+00
NORMALIZED	E-PLANE	1 0			9.90215-01	9.90375-01		9.9644E-01	- 1	1.0052E+00	1.0023E+00	9.9373E-01	9.9664E-01	1.0074E+00	1.00445+00	9.9235E-01	9.96325-01	1.0083E+00	1.0011E+00	9.9057E-01	1.0030E+00	1.0099E+00	9.9195E-01	9.9199E-01	1.0122E+00	1.0008E+00	9.85035-01	1.0087E+00	1.0100E+00	9.8128E-01	1.0016E+00	1 0174F+00
į,	ANGLE			9 0	•	9 0		12.0	0.4	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	45.0	4.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=37.4

NORMALIZED CROSS SECTION	H-PLANE		1.0581E+00	1.0628E+00	1.0759E+00	1.0843E+00	1.1017E+00	1.1104E+00	1,1390E+00	1.1493E+00	1.1810E+00	1.2196E+00	1.222BE+00	1.3305E+00	1.2898E+00	1.4595£+00	1.4559E+00	1.5605E+00	1.8240E+00	1.6354E+00	2.4553E+00	1.8957E+00	3.2658E+00	3.1101E+00	3.9224E+00	7.7044E+00	3.94716+00	2.5820E+01	8.3393E+00	1.5239E+02	8.8235E+02	1.4251E+03	
NORMALIZED C	E-PLANE		1.0985E+00	7.1105E-01	1.2553E+00	7.5222E-01	9.8253E-01	1.1604E+00	5.6143E-01	1.4187E+00	5.8116E-01	1.0816E+00	1.1792E+00	4.220BE-01	1.7333E+00	2.81845-01	1.4710E+00	1.15845+00	4.7300E-01	2.4200E+00	5.067EE-02	2.6045E+00	1.8817E+00	1.1336E+00	6.148CE+00	1.6491E+00	9.3202E+00	2.2778E+01	4.0505E+00	2.2068E+02	9.4086E+02	1.4251E+03	
	ANGLE	1-1-1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
ROSS SECTION	H-PLANE		1.0022E+00	1.0012E+00	1.0017E+00	1.0029E+00	1.0018E+00	1.0024E+00	1.0038E+00	1.0025E+00	1.0035E+00	1.0051E+00	1.0034E+00	1.0054E+00	1.0065E+00	1.0049E+00	1.0083E+00	1.0082E+00	1.0077E+00	1.0123E+00	1.0103E+00	1.0130E+00	1.0167E+00	1.0145E+00	1.0212E+00	1.0215E+00	1.0236E+00	1.0312E+00	1.0298E+00	1.0390E+00	1.0425E+00	1.0477E+09	
NORMALIZED CROSS SECTION	E-PLANE		9.9427E-01	9.7993E-01	1.0230E+00	9.9608E-01	9.7342E-01	1.0281E+00	9.9300E-01	9.6868E-01	1.0370E+00	9.8186E-01	9.6966E-01	1.0480E+00	9.5903E-01	9.8437E-01	1,0518E+00	9.2677E-01	1.0221E+00	1.0283E+00	9.0477E-01	1.0776E+00	9.5726E-01	9.3512E-01	1.1057E+00	8.5753E-01	1.0477E+00	1.0252E+00	8.3139E-01	1.1703E+00	8.2384E-01	9.99956-01	
	ANGLE	11111	62.0	64.0	99	0.89	70.0	72.0	74.0	0.94	78.0	80.0	82.0	84.0	96.0	88.0	90.06	92.0	94.0	96.0	99.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE	1 1 1 1 1 1 1 1	1.0140E+00	1.011CE+00	1.0045E+00	9.9938E-01	9.98495-01	1.0002E+00	1.0011E+00	1.0004E+00	9.99685-01	1.0002E+00	1.0007E+00	1.0002E+00	9.9989E-01	1.0004E+00	1.000BE+00	1.0002E+00	9.9938E-01	1.00U7E+00	1.0008E+00	1.0002E+00	1.0004E+00	1.001CE+00	1.0006E+00	1.0003E+00	1.0011E+00	1.0011E+00	1.0004E+00	1.0012E+00	1.0016E+00	1.0008E+00	1.0013E+00
NORMAL I ZED C	. E-PLANE		1.01405+00	1.0055£+00		9.9030E-01	1.0020E+00	1.0085E+00	1.0011E+00	9.9350E-01	9.9866E-01	1.0058E+00	1.000BE+00	9.9430E-01	1.0009E+00	1.0071E+00	9.9769E-01	9.91706-01	1.0040E+00	1.0084E+00	9.9357E-01	9.93705-01	1.0096E+00	1.0015E+00	9.87306-01	1.0047E+00	1.0111E+00	9.8714E-01	9.9580E-01	1.0164E+00	9.9009E-01	9.8707E-01	1.0198E+00
	ANGLE	[0.0	5.0	0.4	0.9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.c	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

COUNTY TO CONTROL OF THE PROPERTY OF

KA=37.6

NORMALIZED CROSS SECTION	H-PLANE		0 1.0580E+00	1 1.0624E+00	_	1 1.0837E+00	-	_	-	-	<u>-</u>	_	_	-	0 1.2941E+00	_	-	-	_	0 1.6162E+00	N				••			_	0 8.8321E+00		_	3 1.4403E+03	
NORMAL I ZEI	E-PLANE		1.1716E+00	6.9238E-0	1.2008E+00	8.5525E-01	8.6025E-0	1.257(E+00	5.2768E-01	1.3710E+00	7.0025E-01	9.2538E-01	1.32176+00	3.40116-0	1.72126+00	3.8820E-01	1.2944E+00	1.3477E+00	3.25506-01	2.4643E+00	1.2097E-01	2.4200E+00	2.0979E+00	9.4749E-01	6.1542E+00	1.8326E+00	8.8312E+00	2.3206E+01	3.8026E+00	2.1763E+02	9.464E+02	1.4403E+03	
	ANGLE	-	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE		1.0021E+00	1.0017E+00	1.0013E+00	1.0028E+00	1.0023E+00	1.0019E+00	1.0038E+00	1.0030E+00	1.0028E+00	1.0052E+00	1.0039E+00	1.0046E+00	1.0070E+00	1.0051E+00	1.0074E+00	1.0090E+00	1.0072E+00	1.0117E+00	1.0113E+00	1.0118E+00	1.0171E+00	1.0147E+00	1.0200E+00	1.0227E+00	1.0225E+00	1.0311E+00	1.0302E+00	1.0376E+00	1.0433E+00	1.0466E+00	
NORMALIZED	E-PLANE		1.0109E+00	9.7480E-01	1.0094E+00	1.0152E+00	9.6825E-01	1.0121E+00	1.0164E+00	9.59835-01	1.0216E+00	1.0106E+00	9.51596-01	1.0391E+00	9.9084E-01	9.52316-01	1,0596E+00	9,5168E-01	9.7847E-01	1.0627E+00	9.03586-01	1.0413E+00	1,0130E+00	8.9147E-01	1.1110E+00	8.9814E-01	9.78445-01	1.0905E+00	8.0384E-01	1,1431E+00	8.9909E-01	9.0631E-01	
	ANGLE		62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	68.0	90.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE		1.0090E+00	1.0075E+00	1.0037E+00	1.0001E+00	9.9868E-01	9.9971E-01	1,0010E+00	1.0008E+00	9.99755-01	9.99685-01	1.0005E+00	1.0007E+00	1.0000E+00	9.999E-01	1.0006E+00	1.0006E+00	1.0000E+00	1.0003E+00	1.0009E+00	1.0005E+00	1.00015+00	1.0008E+00	1.0009E+00	1.0003E+00	1.0007E+00	1.0014E+00	1.0007E+00	1.0007E+00	1.0017E+00	1.0011E+00	1.0009E+00
NORMAL 12ED (E-PLANE		1.0090E+00	1.0043E+00	9.9522E-01	9.9197E-01	9.9916E-01	1.00756+00	1.0045E+00	9.9426E-01	9.9392E-01	1.0045E+00	1.0070E+00	9.9651E-01	9.9384E-01	1.0043E+00	1.0050E+00	9.9374E-01	9.96668-01	1.0090E+00	1.0010E+00	9.89175-01	1.0027E+00	1.0098E+00	9.9116E-01	9.9408E-01	1.0137E+00	9.96975-01	9.85495-01	1.0126E+00	1.0043E+00		1.0107E+00
	ANGLE		0.0	2.0	4.0	9	8	10.0	12.0	4.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	0.09

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=37.8

ED CROSS SECTION
9.95655-01
9.9704E-01
9.99565-01
1.0009E+00
.0003E+00
9.93695-01
.0002E+00
.0007E+00
.0003E+00
9.9972E-01
.0002E+00
.0008E+00
.0004E+00
9.99835-01
.0003E+00
.0008E+00
.0003E+00
0001E+00
.0007E+00
.0008E+00
0002E+00
.0005E+00
.0011E+00
.0006E+00
.0004E+00
.0013E+00
.0010E+00
.0005E+00
.0014E+00
.0016E+00
.0008E+00

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

4=38.0

ANGLE	NORMALIZED C	NORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED (E-PLANE	WORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
	1111111	* 1 1 1 1 1 1 1 1		1				
0.0	9.87C3E-01	9.87035-01	62.0	1.0184E+00	1.0013E+00	122.0	1.2143E+00	1.0568E+00
5.0	9.9535E-01	9.8947E-01	64.0	9.9874E-01	1.0024E+00	124.0	7.7190E-01	1.0623E+00
0.4	1.00895+00	9.5632E-01	0.99	9.7642E-01	1.0014E+00	126.0	1.0235E+00	1.0736E+00
ა 9	1.0093E+00	1.0011E+60	0.89	1.0225E+00	1.001RE+00	128.0	1.0839E+00	1.0833E+00
0.8	9.9762E-01	1,0017E+00	70.0	9.9744E-01	1.0031E+00	130.0	6.66136-01	1.0988E+00
10.0	9.32381-01	1.0001E+00	72.0	9.7202E-01	1.0020E+00	132.0	1.3448E+00	1.11116+00
12.0	1.0004F+00	9.9936E-01	74.0	1.0301E+00	1.00265+00	134.0	5.8758E-01	1.1308E+00
14.0	1.00552+00	1.00 '2E+00	76.0	9.8904E-01	1,0041E+00	136.0	1.1702E+00	1.1560E+00
16.0	1,00035+00	1.0007E+00	78.0	9.7138E-01	1.0026E+00	138.0	9.8757E-01	1.1661E+00
18.0	9.94715-01	1.0002E+00	0.08	1.0403E+00	1.0041E+00	140.0	6.3511E-01	1.2272E+00
20.0	1.00105+00	9.9936E-01	82.0	9.7008E-01	1.0052E+00	142.0	1.5216E+00	1.2140E+00
22.0	1.0054E+00	1.0004E+00	84.0	9.8185E-01	1.0037E+00	144.0	2.9682E-01	1.3187E+00
24.0	9.9733E-01	1,000êE+60	86.0	1.0460E+00	1.0064E+00	146.0	1.5780E+00	1.31016+00
26.0	9.9413E-01	1.0001E+00	98.0	9.4164E-01	1.00655+00	148.0	6.8217E-01	1.4078E+00
28.0	1.0049E+00	9.99998-01	0.06	1.0128E+00	1.00575+00	150.0	9.1907E-01	1.5127E+00
30.0	1.0064E+60	1.0007E+00	92.0	1.0297E+00	1.0095E+00	152.0	1.6867E+00	1.4815E+00
32.0	9.93165-01	1.00c7E+00	94.0	9.19585-01	1.0080E+00	154.0	1.1624E-01	1.8750E+00
34.0	9.9477E-01	1.0001E+00	96.0	1.0617E+00	1.0096E+00	156.0	2.4521E+00	1.6002E+00
36.0	1.0087E+00	1.0003E+00	98.0	9.7131E-01	1.0130£+00	158.0	3.4461E-01	2.3986E+00
38.0	1.0014E+00	1.0009E+00	100.0	9.4138E-01	1.0107E+00	160.0	2.0120E+00	2.0192E+00
40.0	9.89715-01	1.0003E+00	102.0	1.0901E+00	1.0161E+00	162.0	2.5159E+00	2.9823E+00
42.0	1.0044E+00	1.0002E+00	104.0	8.8462E-01	1.0165E+00	164.0	6.3430E-01	3.4686E+00
44.0	1.0091E+00	1.0010E+00	106.0	1.0365E+00	1.0173E+00	166.0	6.0927E+00	3.3949E+00
46.0	9.83745-01	1.0009E+00	108.0	1.0242E+00	1.0239E+00	168.0	2.2526E+00	8.1406E+00
48.0	9.9599E-01	1.0003E+00	110.0	8.6052E-01	1.0219E+00	170.0	7.8626E+00	3.5357E+00
50.0	1.0141E+00	1.0009E+00	112.0	1.1415E+00	1.0293E+00	172.0	2.3976E+01	2.5317E+01
52.0	9.9251E-01	1.0014E+00	114.0	8.5213E-01	1.0320E+00	174.0	3.466E+00	9.9199E+00
54.0	9.838-01	1.000E+00	116.0	1.0076E+00	1.0348E+00	176.0	2.1145E+02	1.43696+02
56.0	1.0168E+00	1.0010E+00	118.0	1.0715E+00	1.0442€+00	178.0	9.5745E+02	8.9635E+02
58.0	9.9657E-01	1.001BE+00	120.0	7.6814E-01	1.0454E+00	180.0	1.4708E+03	1.4708E+03
0.09	9.8213E-01	1.0010E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=38.2

	NORMALIZED C	ZED CROSS SECTION		NORMALIZED C	NORMALIZED CROSS SECTION		NORMAL 1 ZED	CROSS SECTION
ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
1	11:11:11							* * * * * * * * * * * * * * * * * * * *
0.0	9.9137[-01	9.91376-01	62.0	1,0058E+00	1.0009E+00	122.0	1.1793E+00	1.0558E+00
5.0	9.96205-01	9.9298£-01	64.0	1.0149E+00	1.0022E+00	124.0	8.5780E-01	1.0625E+00
4.0	1.0055E+C0	9.9682E-01	0.99	9.7403E-01	1.0019E+00	126.0	9.1412E-01	1.0726E+00
6.0	1.0082€+00	1.0005E+00	68.0	1.0074E+00	1.0014E+G0	128.0	1.1806E+00	1.0833E+00
8.0	1.0004E+00	1.0017E+00	70.0	1.0170E+00	1.0029E+00	130.0	6.1680E-01	1.0974E+00
10.0	9.9269E-01	1.0005E+00	72.0	9.66775-01	1.0025E+00	132.0	1.3261E+00	1.1118E+00
12.0	9.96955-01	9.9934E-01	74.0	1.0145E+00	1.0021E+00	134.0	6.7456E-01	1,1279E+00
14.0	1.0067E+00	9.9975E-01	76.0	1.0136E+00	1.0041E+00	136.0	1.0361E+00	1.1578E+00
16.0	1.0051E+00	1.0008E+00	78.0	9.58326-01	1.0031E+00	138.0	1.1316E+00	1.162BE+00
13.0	9.9462E-01	1.0007E+00	80.0	1,0293E+00	1.0033E+00	140.0	5.2290E-01	1.2268E+00
20.0	9.9473E-01	9.9966E-01	82.0	9.9872E-01	1.0055E+00	142.0	1.5657E+00	1.2152E+00
22.0	1.0351E+00	9.9993E-01	84.0	9.5616E-01	1.00395+00	144.0	3.3756E-01	1.3103E+00
24.0	1.0046E+00	1.0006E+00	86.0	1,0490E+00	1.0055E+00	146.0	1.4559E+00	1.3205E+00
26.0	9.94435-01	1.0005E+03	88.0	9.6637E-01	1.0072E+00	148.0	8.5555E-01	1.3892E+00
28.0	9.9746E-01	9.9998E-01	0.06	9.7498E-01	1.0054E+00	150.0	7.3638E-01	1.5294E+00
30.0	1.0073E+00	1.0003E+00	92.0	1.0565E+00	1.0089E+00	152.0	1.8236E+00	1.4620E+00
32.0	9.99915-01	1.0008E+00	94.0	9.2282E-01	1.0089E+00	154.0	6.0540E-02	1.8807E+00
34.0	9.9:06E-01	1.0003E+00	0.96	1.0273E+00	1.0086E+00	156.0	2.3962E+00	1.6034E+00
36.0	1.0034E+00	1.0001E+00	98.0	1.0196E+00	1.0132E+00	158.0	4.9280E-01	2.3637E+00
38.0	1.0068E+00	1.0007E+00	100.0	9.0616E-01	1.0111E+00	160.0	1.7960E+00	2.0741E+00
40.0	9.92335-01	1.000BE+00	102.0	1,0910E+00	1.0149E+00	162.0	2.7113E+00	2.8808E+00
42.0	9.94591-01	1.0002E+00	104.0	8.2246E-01	1.0175E+00	164.0	5.1032E-01	3.5846E+00
44.0	1.0112E+00	1.0006E+00	106.0	9.7562E-01	1.0164E+00	166.0	6.0256E+00	3.2376E+00
46.0	9.97652-01	1.0011E+00	108.0	1.0800E+00	1.0237E+00	168.0	2.4857E+00	8.2512E+00
48.0	9.8766E-01	1.0005E+00	110.0	8.37706-01	1.0225E+00	170.0	7.3866E+00	3.4511E+00
20.0	1.01072+00	1.00CSE+00	112.0	1.1173E+00	1.0279E+00	172.0	2.4317E+01	2.5086E+01
52.0	1.00498+00	1.0014E+00	114.0	9,1767E-01	1.0329E+00	174.0	3.3771E+00	1.0512E+01
54.0	9.83086-01	1.0009£+00	116.0	9.2517E-01	1.0337E+00	176.0	2.0833E+02	1.4078E+02
36.0	1.0078E+00	1.0007E+00	118.0	1.1382E+00	1.0441E+00	178.0	9.6289E+02	9.0092E+02
58.0	1.0105E+00	1.0017E+00	120.0	7.4621E-01	1.0454E+00	180.0	1.4862E+03	1.4862E+03
0.03	9.78886-01	1.0014E+30						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=38.4

	NORMALIZED (NORMALIZED CROSS SECTION		NORMALIZED C	NORMALIZED CROSS SECTION		NORMAL I ZED	NORMALIZED CROSS SECTION
ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6		() ()	1 0		
0.0	1.00425+00	1.0042E+00	62.0	9.89816-01	1 - 0009E+00	122.0	1.11.46+00	1.0348E+00
5.0	1.00035.00	1.0029E+00	64.0	1.0223E+00	1.0018E+00	124.0	9.58745-01	1.0628E+00
4.0	9.96948-01	1,0005E+00	0.99	9.8447E-01	1.0024E+00	126.0	8.1261E-01	1.0715E+00
6.9	9,99586-01	9,99526-01	68.0	9.8812E-01	1.0013E+00	128.0	1.24H6E+00	1.0833E+00
0.8	1.0031E+00	1.00 2E+00	70.0	1.0271E+00	1.0025E+00	130.0	6.07upg~01	1.0959E+00
10.0	1.0001E+00	1.0037E+00	72.0	9.7639E-01	1.0030E+00	132.0	1.2675E+00	1.1126E+00
12.0	9.9640E-01	1.0001E+00	74.0	9.9155E-01	1.0019E+00	134.0	7.88746-01	1.1252E+00
14.0	1.00085+00	9.9973E-01	76.0	1.03C6E+00	1.0036E+00	136.0	8.9550E-01	1.1589E+00
16.0	1.00535 : 00	1.00c3E+00	78.0	9.6232E-01	1.0038E+00	138.0	1.2596E+00	1.1607E+00
18.0	9.99425-01	1.0007E+00	80.0	1.0052E+00	1.0C28E+00	140.0	4.4439E-01	1.2248E+00
20.0	9. 93435-01	1.0002E+C0	82.0	1.0261E+00	1.0053E+00	142.0	1.5678E+00	1.2182E+00
22.0	1.00085+00	9.9976E-01	84.0	9.4647E-01	1.0046E+00	144.0	4.160BE-01	1.3004E+00
24.0	1.00/95+00	1,0003E+00	86.0	1.0320E+00	1.0047E+00	146.0	1.3081E+00	1.3317E+00
26.0	9.9904E-01	1,0007E+00	88.0	1.0011E+00	1.0075E+00	148.0	1.0347E+00	1.37146+00
25.0	9.9219E-01	1.0002E+00	0.06	9.4458E-01	1.0057E+00	150.0	5.6745E-01	1.5435E+00
30.0	1.0027E+00	9.9938E-01	92.0	1.0621E+00	1.0080E+00	152.0	1.9319E+00	1.4472E+00
32.0	1.0068E+00	1.0005E+00	94.0	9.48585-01	1.0097E+00	154.0	3.9921E-02	1.8801E+00
34.0	9.9413E-01	1.0007E+00	0.96	9.8264E-01	1.0080E+00	156.0	2.3068E+00	1.6138E+00
36.0	9.9557E-01	1.0001E+00	0.86	1.0590E+00	1.0129E+00	158.0	6.6021E-01	2.322E+00
36.0	1.0094E+00	1.00C4E+00	100.0	8.9519E-01	1.0119E+00	160.0	1.5772E+00	2.1339£+00
40.0	1.0001E+C0	1.0009E+00	102.0	1,0645E+00	1.0136E+00	162.0	2.8936E+00	2.7783E+00
42.0	9.88595-01	1.0005E+00	104.0	9.76695-01	1.0182E+00	164.0	4.0974E-01	3.6961E+00
44.0	1.0057E+00	1.0003E+00	106.0	9.1827E-01	1.0160E+00	166.0	5.9350E+00	3.0919E+00
46.0	1.0079E+00	1.001CE+00	108.0	1,1130E+00	1.0230E+00	168.0	2.7318E+00	8.3429E+00
48.0	9.87295-01	1.0009E+00	110.0	8.4741E-01	1.0234E+00	170.0	6.9186E+00	3.3929E+00
50.0	1,0003E+00	1.0004E+00	112.0	1.0650E+00	1.0264E+00	172.0	2.4627E+01	2.4826E+01
52.0	1.01375+33	1.0011E+00	114.0	9.9475E-01	1.0336E+00	174.0	3.3389E+00	1.1134E+01
54.0	9.8723E-01	1,0013E+00	116.0	8.5347E-01	1.0332E+00	176.0	2.0518E+02	1.3787E+02
56.0	9.94635-01	1.0006E+00	118.0	1,17546+00	1.0435E+00	178.0	9.6827E+02	9.0542E-02
58.0	1.01782+00	1.0013E+00	120.0	7.6204E-01	1.0458E+00	180.0	1.5017E+03	1.5017E+03
60.0	9.87156-01	1.0018E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=38.6

	NORMALIZED C	NORMALIZED CROSS SECTION		NORMALIZED C	NORMALIZED CROSS SECTION		NORMALIZED C	NORMALIZED CROSS SECTION
NGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
			1			1 1 1 1		
0.	1.01295+00	1.0129E+00	62.0	9.7915E-01	1.0012E+00	122.0	1.0221E+00	1.0533E+00
5.0	1.0046E+00	1.0039E+00	64.0	1.0172E+00	1.0013E+00	124.0	1.05º9E+00	1.0630E+00
0.0	9.9158F-01	1.0037E+00	99	1.0020E+00	1.0025E+00	126.0	7.3253E-01	1.0705E+00
6.0	9.5193E-01	9.99175-01	68.0	9.7438E-01	1.0016E+00	128.0	1.2797E+00	1.0834E+00
0.8	1,00335+00	9.9878E-01	70.0	1.0231E+00	1.0019E+00	130.0	6.4037E-01	1.0944E+00
10.0	1.0073E+00	1.0004E+00	72.0	9.9618E-01	1.0033E+00	132.0	1.1757E+00	1.1132E+00
12.0	9.9892E-01	1.0010E+00	74.0	9.7201E-01	1.0021E+00	134.0	9.18535-01	1.1230E+00
14.0	9.9426E01	1.0001E+00	76.0	1,0329E+00	1.0030E+00	136.0	7.6127E-01	1.1592E+00
16.0	1.0012E+00	9.99755-01	78.0	9.8139E-01	1.0043E+00	138.0	1.3610E+00	1.1599E+00
18.0	1.0050E+00	1.0004E+00	80.0	9.7810E-01	1.0028E+00	140.0	4.0529E-01	1.2212E+00
20.0	9.9787E-01	1.00C6E+00	82.0	1.0413E+00	1.004EE+00	142.0	1.52325+00	1.2227E+00
22.0	9.95725-01	1.0000E+00	84.0	9.5625E-01	1.0053E+00	144.0	5.298PE-01	1.2894E+00
24.0	1.00445+00	1.0000E+00	86.0	1.0017E+00	1.0041E+00	146.0	1.1432E+00	1.3429E+00
26.0	1.0043E+00	1.0006E+00	88.0	1.0332E+00	1.0073E+00	148.0	1.2112E+00	1.3551E+00
28.0	9.93465-01	1.0005E+00	0.06	9.3200E-01	1.0063E+00	150.0	4.1941E-01	1.5544E+00
30.0	9.96425-01	9.99a5E-01	92.0	1.0449E+00	1.0070E+00	152.0	2.0075E+00	1.4374E+00
32.0	1.0084E+00	1.0003E+00	94.0	9.88296-01	1.0103E+00	154.0	5.4792E-02	1.8733E+00
34.0	1.0013E+00	1.0008E+00	96.0	9.4164E-01	1.0080E+00	156.0	2.1925E+00	1.6309E+00
36.0	9.9090E-01	1.0004E+00	98.0	1.0780E+00	1.0120E+00	158.0	8.43c6E-01	2.274BE+00
38.0	1.0032E+00	1.0001E+00	100.0	9.1127E-01	1.0129E+00	160.0	1.3598E+00	2.1972E+00
40.0	1.0077E+00	1.0008E+00	102.0	1.0182E+00	1.0125E+00	162.0	3.0601E+00	2.6763E+00
42.0	9.90786-01	1.000BE+00	104.0	1.0332E+00	1.0184E+00	164.0	3.3345E-01	3.8018E+00
44.0	9.9645E-01	1.0002E+00	106.0	8.7844E-01	1.0163E+00	166.0	5.8219E+00	2.95886+00
46.0	1.0125E+00	1.0007E+00	108.0	1.1159E+00	1.0218E+00	168.0	2.9891E+00	8.4153E+00
48.0	9.94795-01	1.0012E+00	110.0	8.8711E-01	1.0245E+00	170.0	6.4604E+00	3.3610E+00
50.0	9.8952E-01	1.0005E+00	112.0	9.95816-01	1.0252E+00	172.0	2.4906E+01	2.4536E+01
52.0	1.0135E+00	1.0008E+00	114.0	1.0680E+00	1.0338E+00	174.0	3.3512E+00	1.1784E+01
54.0	9.9873E-01	1.0015E+00	116.0	8.0576E-01	1.0331E+00	176.0	2.0201E+02	1.3497E+02
56.0	9.8382E-01	1.0008E+00	118.0	1.1768E+00	1.0424E+00	178.0	9.7361E+02	9.0988E+02
58.0	1.0144E+00	1.0009E+00	120.0	8.1262E-01	1.0464E+00	180.0	1.5173E+03	1.5173E+03
0	4 0030F+00	1.00195+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONCUCTING SPHERE

KA=38.8

NORMALIZED CROSS SECTION	H-PLANE		1.0522E+00	1.0631E+00	1.0697E+00	1.0833E+00	1.0931E+00	1.1134E+00	1.1214E+00	1.1585E+00	1.1604E+00	1.2162E+00	1.2284E+00	1.2781E+00	1.3533E+00	1.3411E+00	1.5615E+00	1.4327E+00	1.8605E+00	1.6540E+00	2.2228E+00	2.2626E+00	2.5765E+00	3.9003E+00	2.8394E+00	8.4679E+00	3.35506+00	2.4218E+01	1.2462E+01	1.3206E+02	9.1427E+02	1.5329E+03	
NORMA L 1 ZED	E-DIANE		9.253E-01	1.14.5E+00	6.8487E-01	1.2703E+00	7,0978E-01	1.0609E+00	1.050RE+CO	6.45698-01	1.4276E+00	4.0826E-01	1.449E+00	6.69086-01	9.7031E-01	1.3752E+00	2.98445-01	2.0478E+00	1.04.12E-01	2.0505E+00	1.0370E+00	1.1477E+00	3.2081E+00	2.8209E-01	5.6872E+00	3.2557E+00	6.0138E+00	2.5152E+01	3.4130E+00	1.9882E+02	9.7889E+02	1.5329E+03	
	ANGLE		122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE		1.0016E+00	1.0010E+00	1.0022E+00	1.0021E+00	1.0015E+00	1.0032E+00	1.0026E+00	1.0024E+00	1.0044E+00	1.0032E+00	1.0040E+00	1.0058E+00	1.0041E+00	1.0067E+00	1.0072E+00	1.0062E+00	1.0102E+00	1.0086E+00	1.0109E+00	1.0138E+00	1.0119E+00	1.0!80E+00	1.0171E+00	1.0204E+00	1.0254E+00	1.0244E+00	1.0335E+00	1.0335E+00	1.0412E+00	1.0471E+00	
NORMALIZED C	E-PLANE	1	9.7943E-01	1.0023E+00	1.0175E+00	9.7306E-01	1.0072E+00	1.0167E+00	9.6476E-01	1.0195E+00	1.0070E+00	9.59336-01	1.0383E+00	9.8137E-01	9.6972E-01	1.0512E+00	9.4139E-01	1.0110E+00	1,0291E+00	9,1690E-01	1,0713E+00	9.4954E-01	9.64795-01	1,0774E+00	8.6565E-01	1,0884E+00	9,4767E-01	9.2447E-01	1,1228E+00	7,9073E-01	1,1426E+00	8.8920E-01	
	ANGLE	[62.0	64.0	0.99	0.89	20.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	96.0	88.0	90.06	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ED CROSS SECTION	H-PLANE	********	1,0091E+00	1.0074E+00	1.0034E+00	9.9976E-01	9.9874E-01	9.99995-01	1.0011E+00	1.0005E+00	9.9962E-01	9.9992E-01	1.0007E+00	1.0005E+00	9.9990E-01	1.0002E+00	1.0007E+00	1.0002E+00	1.0000E+00	1.0006E+00	1.0007E+00	1.0001E+00	1.0004E+00	1.0010E+00	1.0004E+00	1.0004E+00	1.0012E+00	1.0008E+00	1.0005E+00	1.0014E+00	1.0012E+00	1.0007E+00	1.0017E+00
NORMAL 1 ZED C	E-PLANE		1.0091 5+00	1.0040E+00			+	1.0077E+00	-	9.9324E-01						+	+	9.9305E-01	+	-	٠	1			9.89546-01	+	+	- 1	+	•	9.8306E-01	1.0025E+00	
	ANGLE		0.0	0.0	4.0	0.9	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=39.0

NORMALIZED C	NORMALIZED CROSS SECTION FLDIAGE HEDIANS	ANGLE	NORMALIZED C	KORMALIZED CROSS SECTION E-PLANE H-PLANE	ANGLE	NORMALIZED E-PLANE	NORMALIZED CROSS SECTION E-PLANE H-PLANE
9.9680E-01	9.9630E-01	62.0	9.9036E-01	1.0020E+00	122.0	8.3700E-01	1.0512E+00
9.9381E-01	9.97 7E-C1	64.0	9.8603E-01	1.0010E+00	124.0	1.2042E+00	1.0630E+00
1.0030E+00	1.0001E+00	99	1.0231E+00	1.0018E+00	126.0	6.7554E-01	1.0690E+00
1.0003E+00	1.0009E+00	68.0	9.8466E-01	1.0025E+00	128.0	1.2219E+00	1.0831E+00
9.97405-01	1.003:E+00	70.0	9.8735E-01	1.0014E+00	130.0	8.0779E-01	1.0920£+00
1.0009[+00	9.9974E-01	72.0	1.02916+00	1.0027E+00	132.0	9.35626-01	1.1133E+00
1.0037E+00	1.0004E+30	74.0	9.7286E-01	1.0332E+00	134.0	1,1725E+00	1.1204E+00
9.9854E-01	1.000E+00	76.0	9.9668E-01	1.0021E+00	136.0	5.59' 6E-01	1.1569E+00
9.95315-01	1.0000E+00	78.0	1.0281E+00	1.0041E+00	138.0	1.45416+00	1.1619E+00
1.0022E+00	9.99775-01	80.0	3.5653E-01	1.0038E+00	140.0	4.5278E-01	1.2103E+00
1.00635+00	1.0004E+00	82.0	1.0186E+00	1.0033E+03	142.0	1.3382E+00	1.2346E+00
9.97565-01	1.0007E+00	84.0	1.0119E+00	1.0059E+00	144.0	8.25756-01	1.2671E+00
9.93135-01	1.0001E+00	86.0	9.4799E-01	1.0045E+00	146.0	7.9907E-01	1.3623E+00
1.00355+00	9.9990E-01	0.88	1.0487E+00	1.0058E+00	148.0	1.52196+00	1.3299E+00
1.0065E+00	1.0005E+00	90.06	9.6922E-01	1.0078E+00	150.0	2.0953E-01	1.5644E+00
9.94935-01	1,00062+00	92.0	9.7197E-01	1.0060E+00	152.0	2.0513E+00	1.43335+00
9.95746-01	1,0001E+00	94.0	1.0579E+00	1.0097E+00	154.0	1.8697E-01	1.8421E+00
1.00755.00	1.0003E+00	96.0	9.1582E-01	1.0094E+00	156.0	1.8867E+00	1.6823E+00
1.0302E+00	1.0003E+00	98.0	1.0413E+00	1.0098E+00	158.0	1.2375E+00	2.1672E+00
9.90605-01	1.0004E+00	100.0	9.9830E-01	1.01426+00	160.0	9.4462E-01	2.3287E+00
1.0C49E+00	1.0002E+C0	102.0	9.1874E-01	1.0119E+00	162.0	3.33556+00	2.4802E+00
1.0077E+00	1.0009E+00	104.0	1.0982E+00	1.0171E+00	164.0	2.55986-01	3.9901E+00
9.89535-01	1.000BE+00	106.0	8.8270E-01	1.0181E+00	166.0	5.5322E+00	2.7346E+00
9.98656-01	1.0003E+00	108.0	1.0372E+00	1.0191E+00	0.831	3.5297E+00	8.5003E+00
1.0119E+00	1.0009E+00	110.0	1.0155E+00	1.0259E+00	170.0	5.5803£+00	3.3746E+00
9.90456-01	1.00:1E+60	112.0	8.65952-01	1.0242E+00	172.0	2.5366E+01	2.3874E+01
9.9320E-01	1.0004E+00	114.0	1.1487E+00	1.0326E+00	174.0	3.5234E+00	1.3164E+01
1.0156E+00	1.001CE+00	116.0	8.1085E-01	1.0343E+00	176.0	1.9562E+02	1.2916E+02
9.9187E-01	1.0015E+00	118.0	1.0792E+00	1.0398E+00	178.0	9.84126+02	9.1861E+02
9.88886-01	1.0007E+00	120.0	9.7884E-01	1.0477E+00	180.0	1.5486E+03	1.5486E+03
1.018RF+00	1,0012E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

Second Constitution of the Second Constitution o

KA=39.2

NORMALIZED CROSS SECTION	H-PLANE		1.0506E+00	1.0626E+00	1.0686E+00	1.0826E+00	1.0913E+00	1.1128€+00	1.1202E+00	1.15446+00	1.1644E+00	1.2038E+00	1.240BE+00	1.2570E+00	1.3693E+00	1.3219E+00	1.5630E+00	1.4390E+00	1.81865+00	1.7148E+00	2.1095E+00	2.3941E+00	2.3888E+00	4.0703E+00	2.6452E+00	8.5124E+00	3.4192E+00	2.3503E+01	1.3890E+01	1.2627E+02	9.2289E+02	1.5644E+03	
NORMALIZED C	E-PLANE		7.6997E-01	1.2306E+00	7.0555E-01	1.1411E+00	9.2266E-01	8.1374E-01	1.2714E+00	5.0938E-01	1.4385E+00	5.3512E-01	1.2013E+00	9.90095-01	6.3883E-01	1.6410E+00	1.5626E-01	2.0181E+00	2.9953E-01	1.7058E+00	1.4398E+00	7.5436E-01	3.4401E+00	2.55156-01	5.3582E+00	3.8091E+00	5.1615E+00	2.5546E+01	3.6813E+00	1.9240E+02	9.8930E+02	1.5644E+03	
	ANGLE	1 1 1 1 1	122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	166.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE		1.0020E+00	1.0014E+00	1.0013E+00	1.0026E+00	1.0018E+00	1.0021E+00	1.0035E+00	1.0022E+00	1.00356+00	1.0044E+00	1.0031E+00	1.0055E+00	1.0052E+00	1.0050E+00	1.0081E+00	1.0062E+00	1.0088E+00	1.0103E+00	1.0090E+00	1.0142E+00	1.0125E+00	1.0159E+00	1.01916+00	1.0182E+00	1.0258E+00	1.0245E+00	1.0314E+00	1.0352E+00	1.0385E+00	1.0480E+00	
NORMALIZED C	E-PLANE	11111111	1.0059E+00	9.7696E-01	1.0162E+00	1.0031E+00	9.7329E-01	1.0252E+00	9.9228E-01	9.7464E-01	1.0356E+00	9.7066E-01	9.9048E-01	1.0360E+00	9.4458E-01	1.0272E+00	1.0055E+00	9.4098E-01	1.06576+00	9.3836E-01	9.97065-01	1.0453E+00	8.9235E-01	1.0905E+00	9.2505E-01	9.7451E-01	1,0754E+00	8.3241E-01	1.1408E+00	8.6200E-01	9.9816E-01	1.0666E+00	
	ANGLE		62.0	64.0	66.3	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
ROSS SECTION	VE H-PLANE	111111111	9.8809E-01	9.909BE-01	9.9703E-01	1.0012E+00	1.0914E+00	9.99858-01	9.9951E-01	1.0004E+00	1.0006E+00	1.0000E+30	9.99998-01	1.0005E+00	1.0004E+00	9,9918-01	1.0002E+00	1.0007E+00	1.0003E+00	1.0000E+00	1.0006E+00	1.0057E+00	1.0001E+00	1.0006E+00	1.0010E+00	1.0004E+00	1.0005E+00	1.0012E+00	1.0007E+00	1.0006E+00	1.0016E+00	1.0010E+00	1.0009E+00
NORMAL12ED (E-PLANE	111111111	9.88095-01	9.9520E-01	•				1.0022E+00			9.960.1EU1	1.0034E+00			9.9796E-01	1.0075E+00				1.00735+00		9.9646E-01	1.0105E+00	9.9640E-01	9.89895-01	1.0107E+00			1.0107E+00	1.0048E+00	9.81416-01	1.0115E+00
	ANGLE		0.0	0	0.4	9	0.8	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=39.4

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

ROSS SECTION	H-PLANE	 1.0503E+00	1.0611E+00	1.0683E+00	1.0811E+00	1.0907E+00	1.1103E+00	1.1214E+00	1.1477E+00	1.1706E+00	1.1908E+00	1.2514E+00	1.2415E+00	1.3756E+00	1.3167E+00	1.5475£+00	1.463BE+00	1.7597€+00	1.7881E+00	1.9925E+00	2.5171E+00	2.2260E+00	4.1974E+00	2.5143E+00	8.4759E+00	3.5810E+00	2.2688E+01	1.5406E+01	1.2050E+02	9.3128E+02	1.5963E+03	
NORMALIZED CROSS SECTION	E-PLANE	 7.3656E-01	1.16:0E+00	8.6114E-01	9.2675E-01	1.14435+00	6.30CBE-01	1.3654E+00	5.3334E-01	1.2908E+00	7.8481E-01	8.9032E-01	1.3011E+00	3.8509E-01	1.7787E+00	1.63175-01	1.8484E+00	5.98516-01	1.3122E+00	1.8310E+00	4.25496-01	3.5787E+00	3.2799E-01	4.9594E+00	4.3761E+00	4.3740E+00	2.5806E+01	4.1352E+00	1.8591E+02	9.9949E+02	1.5963E+03	
	ANGLE	 122.0	124.0	126.0	128.0	130.0	132.0	134.0	136.0	138.0	140.0	142.0	144.0	146.0	148.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	164.0	165.0	168.0	170.0	172.0	174.0	176.0	178.0	180.0	
NORMALIZED CROSS SECTION	H-PLANE	1.0013E+00	1.0021E+00	1.0012E+00	1,0019E+00	1.00275+00	1.0016E+00	1.0030E+00	1.0032E+00	1.0024E+00	1.0046E+00	1.0037E+00	1.0041E+00	1.0063E+00	1.0046E+00	1.0071E+00	1.0077E+00	1.0070E+00	1.0111E+00	1.0091E+00	1.0125E+00	1.0144E+00	1.01375+00	1.0199E+00	1.0180E+00	1.0241E+00	1.0262E+00	1.0287E+00	1.0365E+00	1.0369E+00	1.0475E+00	
NORMALIZED (E-PLANE	1.0189E+00	9.9265E-01	9.8409E-01	1.0243E+00	9.8307E-01	9.8830E-01	1.0281E+00	9.67456-01	1.0054E+00	1.0209E+00	9.5338E-01	1.0340E+00	9.89386-01	9.6259E-01	1.0544E+00	9.37615-01	1.0167E+00	1.0204E+00	9.19095-01	1.0818E+00	9.1830E-01	1.0057E+00	1.0397E+00	8.7304E-01	1.1242E+00	8.6064E-01	1.0379E+00	1.0140E+00	8.4152E-01	1.1810E+00	
	ANGLE	 62.0	64.0	0.99	0.89	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	0.06	92.0	94.0	0.96	0.86	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
COURS SECTION	H-DLANE	1.00316+00	1.0020E+00	+ 0001E+00	99645-01	1 00045+00	1 0006F+00	9-9-9-4F-01	9.9981F-01	1.00056+00	1.000E+00	99958-01	9-9988F-01	1.00056+00	1.0006E+00	9.999E-01	1.0002E+00	1.0007E+00	1.0003E+00	1.00015+00	1.0007E+00	1.0007E+00	1.0002E+00	1.0007E+00	1.0010E+00	1.0004E+00	1.0007E+00	1.0013E+00	1.0006E+00	1.0009E+00	1.0016£+00	1.0009E+00
2 Carriagon		1 00316+00	1 00025+00	0 07716-01	1 0005 +00	1 0037F+00	Q QBB1F-01	9.500 E-01	1.00257+00	1.004AF+00	9-96BAF-01	9 9481F-01	1 JA42F+00	1.0057E+00	9-486F-01	9.9567E-01		1.00125+00	9.9736E-01	1.0036E+00	1.006RF+00	9.9122E-01	9.9740E-01	1.010RE+00	9.9340F-01	9.9261E-01	1.0:326+00	9.9572E-01	9.8793E-01	1.0149E+00	9.95985-01	9.8499E-01
	ANGLE	6		. 4) a	9	2	4	9	0.0	20.0	200	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	45.0	20.0	52.0	94	58.0	58.0	90.0

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA*39.6

Seesel Connection Bearings to

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=39.8

NORMALIZED CROSS SECTION E-PLANE H-PLANE	•	.7471E-01 1.0506E+00	0872E+00 1.0601E+00	9.6504E-01 1.0684E+00	8.2053E-01 1.0801E+00	.2376E+00 1.0908E+00	-	.351EE+00 1.1227E+00	6.0423E-01 1.1439E+00	-	9.3278E-01 1.1851E+00	7.38BOE-01 1.2548E+00	.4285E+00 1.2368E+00	3.C524E-01 1.3744E+00	-	2.2253E-01 1.5341E+00	.7185E+00 1.4817E+00	_	_	2.0110E+00 1.9360E+00	2.9270E-01 2.5722E+00	3.6061E+00 2.1568E+00			4.6598E+00 B.4276E+00	4.0080E+00 3.6965E+00	2.5886E+01 2.2248E+01	1.4290E+00 1.6192E+01	.8266E+02 1.1764E+02	.0045E+03 9.3539E+02	.6123E+03 1.6123E+03	
NOR	i	122.0 7.7	_	0,		_	u ,	-		-		142.0 7.3	-	146.0 3.0	_		_	-			160.0 2.9			-				174.0 4.4	_	_	180.0 1.6	
ROSS SECTION H-PLANE		1.0009E+00	1.0021E+00	1.0015E+00	1.0015E+00	1.0028E+00	1.0019E+00	1.0024E+00	1.0036E+00	1.0023E+00	1.0041E+00	1.0044E+00	1.0035E+00	1.0063E+00	1.0050E+00	1.0062E+00	1.0084E+00	1.0066E+00	1.0107E+00	1.0099E+00	1.0114E+00	1.0151E+00	1.0132E+00	1.0195E+00	1.0186E+00	1.0228E+00	1.0272E+00	1.0276E+00	1.0366E+00	1.0367E+00	1.0468E+00	
NORMALIZED CROSS SECTION E-PLANE H-PLANE		1.0094E+00	1.0086E+00	9.7554E-01	1.0167E+00	1.0018E+00	9.7306E-01	1.0282E+00	9.8509E-01	9.81106-01	1.0359E+00	9.58976-01	1.0092E+00	1.0203E+00	9.4303E-01	1.0503E+00	9.65626-01	9.7634E-01	1.0545E+00	9.0824E-01	1.0622E+00	9.6406E-01	9.5105E-01	1.0837E+00	8.5761E-01	1.1028E+00	9.1577E-01	9.6386E-01	1.0860E+00	7.93485-01	1.1893E+00	
ANGLE		62.0	64.0	0.99	0.89	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0	92.0	94.0	0.96	98.0	100.0	102.0	104.0	106.0	108.0	110.0	112.0	114.0	116.0	118.0	120.0	
CROSS SECTION H-DIANE	•	1.0118£+00	_	_	o,	9.9907E-01	<u>-</u>	1.0008E+00	9.9993E-01	o	_	_	9.9991E-01	1.0002E+00	1.0006E+00	_	O	1.0005E+00	_	-	-	1.0003E+00	1.0003E+00	1.0003E+00	1.0010E+00	1.0006E+00	1.0004E+00	1.0012E+00	1.0009E+00	1.0006E+00	1.0016E+00	******
NORMALIZED C		1.01185+00	1.0037E+00	9.91845-01	9.9352E-01	1.0043E+00	1.0059E+00	9.9736E-01	9.9567E-01	1.0030E+00	1.3032E+00	9.96c6E-01	9.984SE-01	1.0059E+00	9.9992E-01	9.92796-01	1.0025E+00	1.0071E+00	9.94436-01	9.9572E-01	1.0085E+00	9.98255-01	9.9090E-01	1.0085E+00	1.0035E+00	9.87355-01	1.0066E+00	1.006BE+00	9.8410E-01	1.0065E+00	1.0093E+00	
ANG: F		0.0	5.0					12.0													38.0				46.0							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING PROM CONDUCTING SPHERE

TO SELECT TO SELECT THE SELECT TH

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KA=40.0

	9	CROSS SECTION		NORMALIZED C	CADS SECTION		NORMALIZED (CROSS SECTION
ANGLE		H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
1					*******	•	65665	
0.0	1.0091E+03	1.0091E+C0	62.0	9.9445E-01	1.0008E+00	122.0	8.4296E-01	1.0511E+00
2.0	1.00362+00	1.0072E+00	0.70	1.0191E+00	1.0018E+00	124.0	9.9177E-01	1.0590E+00
•	9.94106-01	1.0030E+00	0.99	9.7920E-01	1.0020E+00	126.0	1,0679E+00	1.0686E+00
9	9.9309E-01	9.9950E-01	9	1.0003E+00	1.0012E+00	128.0	7.3324E-01	1.0791E+00
•	1.0021E+00	9.98865-01	70.0	1.0187E+00	1.0026E+00	130.0	1.2842E+00	1.0910E+00
10.0	1.0073E+00	1.0002E+00	72.0	9.6946E-01	1.0023E+00	132.0	5.8745E-01	1.1065E+00
12.0	1.0001E+00	1.0010E+00	74.0	1.01466+00	1.0019£+00	134.0	1.2986E+00	1.1240E+00
7.0	9.9314E-01	1.0002E+00	76.0	1.00816+00	1.0037E+00	136.0	7.0652E-01	1.1402E+00
16.0	9.9942E-01	9.9960E-01	78.0	9.6422E-01	1.0027E+00	138.0	1.0350E+00	1.1762E+00
18.0	1.0068E+00	1.0002E+00	90.0	1.0345E+00	1.0034E+00	140.0	1.0813E+00	1.1804E+00
20.0	1.0004E+00	1.0007E+00	82.0	9.7967E-01	1.0049E+00	142.0	6.0275E-01	1.25656+00
22.0	9.9401E-01	1.0002E+00	8	9.7985E-01	1.0034E+00	144.0	1.5266E+00	1.2346E+00
24.0	1.00156+00	9.9992E-01	0. 98	1.0417E+00	1.0058E+00	146.0	2.6290E-01	1.3704E+00
58 .0	1.0052E+00	1.0004E+00	98.0	9.4272E-01	1.0057E+00	148.0	1.7639E+00	1.3253E+00
5	9.95816-01	1.0005E+00	0.06	1.0270E+00	1.0054E+00	150.0	3.15955-01	1.5175E+00
90.0	9.9651E-01	1.0000E+00	92.0	1.0032E+00	1.0087E+00	152.0	1.5648E+00	1.5021E+00
32.0	1.0073€+00	1.0003E+00	Z	9.4211E-01	1.0067E+00	154.0	9.61746-01	1.6912E+00
5	1.0005E+00	1.0007E+00	9. 8.	1.0692E+00	1.0099E+00	156.0	9.1229E-01	1.8645E+00
8	9.91196-01	1.0003E+00	9. 8.	9.22216-01	1.0108E+00	158.0	2.1748E+00	1.8823E+00
98.0	1.0041E+00	1.0001E+00	100.0	1.0229E+00	1.0104E+00	160.0	1.8420E-01	2.6214E+00
\$	1.0064E+00	1.000BE+00	102.0	1.0156E+00	1.0154E+00	162.0	3.60916+00	2.0970E+00
42.0	9.9066E-01	1.0006E+00	104.0	9.06736-01	1.0132E+00	164.0	4.9513E-01	4.2753E+00
1 .0	1.0003E+00	1.0002E+00	106.0	1.1036E+00	1.0186E+00	166.0	4.50516+00	2.4497E+00
9	1.01035+00	1.000BE+00	108.0	8.7219E-01	1.0196E+00	168.0	4.94116+00	8.3599E+00
49.0	9.90156-01	1.0009E+00	110.0	1.0554E+00	1.0215E+00	170.0	3.6622E+00	3.8340£+00
20.0	9.96056-01	1.0003E+00	112.0	9.84196-01	1.0278E+00	172.0	2.5931E+01	2.1786E+01
52.0	1.01336+00	1.0010E+00	114.0	8.9391E-01	1.0270E+00	174.0	4.7655E+00	1.6995E+01
5 4.0	9.89716-01	1.0012E+00	116.0	1.1371E+00	1.0363E+00	176.0	1.7939E+02	1.1478E+02
26 .0	9.94126-01	1.0006E+00	118.0	7.7809E-01	1.0369E+00	178.0	1.0095E+03	9.39436+02
3	1.01665+00	1.0013E+00	120.0	1,1615E+00	1.0457E+00	180.0	1.6284E+03	1.6284E+03
9	9.8643E-01	1.0016E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

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MISSION of

Rome Air Development Center

RADC plans and executes research, development, test and selected acquisition programs in support of Command, Control Communications and Intelligence (C³I) activities. Technical and engineering support within areas of technical competence is provided to ESD Program Offices (POs) and other ESD elements. The principal technical mission areas are communications, electromagnetic guidance and control, surveillance of ground and aerospace objects, intelligence data collection and handling, information system technology, solid state sciences, electromagnetics and electronic reliability, maintainability and compatibility.

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